CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, July 5, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
July				
*6	Wells, etc.	Garden City, Kans.	P., S. & B. S.	6-28
*7	Cement.	Chicago, Ill.	S.	6-21
7	Pumps.	Garden City, Kans.	P. & S.	5-31
9	Electric mchy.	Williston, N. Dak.	S. & B. S.	6-28
*10	Dam.	Cody, Wyo.	P., S. & B. S.	6- 7
10	Repair'g bridge.	Westfield, Mass.	P. S. & B. S.	7- 5
*11	Macadam.	Camden, N. J.	P.	6-21
*13	Bridge.	Brandon, Man.	P. & S.	6-14
14	Underground cables.	Phila., Pa.	S.	6-28
16	Pumping machinery.	Framingham, Mass.	S. & B. S.	7- 5
*16	Dredging.	Biloxi, Miss.	S.	6-21
*19	Concrete sewer.	Lancaster, Pa.	P. & S.	6-21
*19	Dredging.	Boston, Mass.	P., S. & B. S.	6-21
21	Air compressors.	Charleston, S.C.	S.	6-28
*24	Steel bars.	Billings, Mont.	S.	6-21
*31	Canal.	Browning, Mont.	S.	6- 7
Aug.				
*2	Reservoir.	Altoona, Pa.	S. & B. S.	6-21
7	Pumping plant.	Billings, Mont.	P., S. & B. S.	7- 5
*30	Tunnel.	Salt Lake City, Utah.	P., S. & B. S.	6-21
Sept.				
15	Hotel bldg.	Manila, P. I.	S.	3-29

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	On file.	See issue.
July 5.	Water power for sale, Kenora, Ont. Advertised, Eng. News, Mar. 15.			Mar. 15
July 6.	Heating, etc.,	Hudson, N. Y.		June 28
July 9.	Elec. machinery,	Williston, N. Dak.		June 21
July 10.	Supplies,	Philadelphia, Pa.		June 21
July 10.	Electric plant,	Nashwauk, Minn.		June 28
July 11.	Heating,	Sherman, Tex.		June 14
July 12.	Power plant,	Washington, D. C.		July 5
July 12.	Power-house,	Washington, D. C.		July 5
July 17.	Wiring system, Advertised, Eng. News, June 21 and 28.	Laredo, Tex.		June 21
July 20.	Elec. plant, water-works, Advertised, Eng. News, July 5 and 12.	Ottawa, Kans.		July 5
July 21.	Gas supplies,	Medicine Hat, Alta.		July 5
July 30.	Lighting fixtures, Advertised, Eng. News, July 5 to 26.	Fortress Monroe, Va.		July 5
July 30.	Power plant, Advertised, Eng. News, July 5 and 12.	Idaho Falls, Idaho.		July 5

BRIDGES.

July 6.	Three bridges,	Xenia, Ohio.	June 28
July 6.	Three bridges,	New Castle, Pa.	June 26
July 7.	Abutment,	Cleveland, Ohio.	June 28
July 7.	Steel bridge,	Mitchell, S. Dak.	June 21
July 7.	Bridge,	Seattle, Wash.	July 5
July 9.	Bridge,	New York, N. Y.	June 28
July 10.	Bridge repairs, Advertised, Eng. News, June 28.	Westfield, Mass.	June 28
July 11.	Two bridges,	Spartanburg, S. C.	July 5
July 13.	Steel bridge, Advertised, Eng. News, June 14 to 28.	Brandon, Man.	June 14
July 16.	Two bridges,	Portsmouth, Ohio.	June 21
July 16.	Piers,	Cornwall, Ont.	July 5
July 18.	Seven bridges,	Cornwall, Ont.	June 14
July 25.	Bridges,	Albany, N. Y.	July 5

BUILDINGS.

July 6.	Buildings,	Hudson, N. Y.	June 28
July 6.	Jail,	Whitesburg, Ky.	June 21
July 7.	Cell work, etc., Advertised, Eng. News, June 28.	Washington, D. C.	June 28
July 10.	Alterations,	Chicago, Ill.	June 21
July 10.	Building,	Garden City, Kans.	June 21
July 14.	Building,	Seattle, Wash.	June 14
July 14.	Brick, Advertised, Eng. News, June 28 to July 12.	Washington, D. C.	June 28
July 16.	Jail,	Benicia, Cal.	July 5
July 23.	Lightkeepers dwelling, etc., Advertised, Eng. News, July 5 and 12.	Phila., Pa.	July 5
Sept. 15.	Hotel,	Manila, P. I.	Mar. 29

WATER SUPPLY AND IRRIGATION.

July 5.	Water-works material,	Wanette, Okla.	June 28
July 6.	Water system, Advertised, Eng. News, June 14 to 28.	Chicago, Ill.	June 14
July 7.	Pumps,	Garden City, Kans.	May 17
July 7.	Water valves, Advertised, Eng. News, June 21 and 28.	Washington, D. C.	June 21
July 7.	Water mains,	Laurinburg, N. C.	June 21
July 8.	Pipe,	Vancouver, B. C.	June 14
July 9.	Pumping station,	Williston, N. Dak.	June 14
July 9.	Engine, Advertised, Eng. News, June 7 to 21.	Pawtucket, R. I.	June 7
July 9.	Water-works,	Leigh, Nebr.	June 21
July 9.	Deep well, Advertised, Eng. News, June 28.	Jackson, Mo.	June 28
July 9.	Water-works,	Casey, Ill.	July 5
July 11.	Pumping engine,	New York, N. Y.	July 5
July 11.	Laying mains,	New York, N. Y.	July 5
July 11.	Stoneware pipe,	New York, N. Y.	July 5
July 12.	Water system,	Carencro, La.	June 14
July 12.	Water-works, Advertised, Eng. News, June 28 and July 5.	Shelby, Miss.	June 28
July 13.	Pipe,	Dufur, Ore.	July 5
July 14.	Pipe system,	New Philadelphia, Ohio.	June 21
July 16.	Water system, Advertised, Eng. News, June 28 to July 12.	Spring Lake, Mich.	June 28
July 16.	Water-works,	Eyota, Minn.	July 5
July 17.	Laying pipe, Advertised, Eng. News, July 5 and 12.	Dayton, Ohio.	July 5
July 18.	Pumping station, etc., Advertised, Eng. News, June 21 to July 5.	Columbus, Ohio.	June 21
July 19.	Dam, Advertised, Eng. News, June 21 and 28.	Lancaster, Pa.	June 21
July 21.	Water meters, Advertised, Eng. News, July 5 and 12.	Washington, D. C.	July 5
Aug. 1.	Water-works,	Glasgow, Mont.	June 21
Aug. 1.	Artesian wells, Advertised, Eng. News, May 31 to June 21.	Famagusta, Egypt.	May 31
Aug. 2.	Storage reservoir, Advertised, Eng. News, June 21 to July 19.	Altoona, Pa.	June 21
Aug. 7.	Pumping plant, Advertised, Eng. News, June 21 to July 5.	Billings, Mont.	June 21
Sept. 5.	Two reservoirs, Advertised, Eng. News, June 21 to Aug. 30.	New Orleans, La.	June 21
Oct. 15.	Water-works,	Rio Grande do Sul, Brazil.	May 31

SEWERAGE.

July 5.	Sewer,	Guthrie, Okla.	June 28
July 5.	Sewers, Advertised, Eng. News, June 21 and 28.	Woonsocket, R. I.	June 21
July 6.	Sewers, etc.,	New York, N. Y.	June 21
July 6.	Sewers,	Moorhead, Minn.	June 28
July 6.	Sewer,	Elkhart, Ind.	June 28
July 6.	Sewers,	New York, N. Y.	July 5
July 7.	Sewer,	Pana, Ill.	July 5
July 7.	Sewers,	Evansville, Ind.	July 5
July 7.	Sewers,	Laurenburg, N. C.	June 21
July 9.	Sewers, Advertised, Eng. News, June 28.	Wadsworth, Ohio.	June 28
July 9.	Sewers,	New York, N. Y.	June 28
July 9.	Sewer, Advertised, Eng. News, June 28.	Oil City, Pa.	June 28
July 9.	Sewers,	Roscoe, Pa.	July 5
July 10.	Sewers,	Winnetka, Ill.	July 5
July 10.	Sewer, Advertised, Eng. News, July 5.	Naugatuck, Conn.	July 5
July 10.	Sewer, Advertised, Eng. News, June 21 and 28.	Ashtabula, Ohio.	June 28
July 10.	Sewers,	New York, N. Y.	June 28
July 10.	Sewers,	Fairbury, Nebr.	June 21
July 10.	Sewer,	Two Rivers, Wis.	June 21
July 12.	Outlet,	Cleveland, Ohio.	June 28
July 12.	Sewers, Advertised, Eng. News, June 28 and July 5.	Shelby, Miss.	June 28
July 12.	Sewer system,	Cambridge, Ohio.	July 5
July 12.	Sewer,	Cleveland, Ohio.	July 5
July 12.	Sewer,	New York, N. Y.	July 5
July 13.	Sewers,	Pipestone, Minn.	July 5
July 13.	Sewers, Advertised, Eng. News, July 5.	Elgin, Ill.	July 5
July 13.	Sewer,	Youngstown, Ohio.	July 5
July 13.	Sewers,	Madison, Wis.	June 28
July 14.	Sewers,	Marianna, Ark.	June 28
July 16.	Sewer pumps, Advertised, Eng. News, June 28.	Framingham, Mass.	June 28
July 16.	Sewers,	Dixon, Ill.	July 5
July 16.	Sewer,	Painsville, Ohio.	July 5
July 17.	Storm sewer, Advertised, Eng. News, July 5 and 12.	Chicago, Ohio.	July 5
July 18.	Sewers,	New York, N. Y.	July 5
July 18.	Sewers,	New York, N. Y.	July 5
July 18.	Sewers, Advertised, Eng. News, June 28 and July 5.	Fort Smith, Ark.	June 28
July 19.	Concrete sewer, Advertised, Eng. News, June 21 and 28.	Lancaster, Pa.	June 21
July 20.	Sewers,	McPherson, Kans.	July 5
Sept. 7.	Sewer gates, Advertised, Eng. News, July 5 to Aug. 23.	Manlia, P. I.	July 5
No date.	Sewer,	Evansville, Ind.	June 28

STREETS AND ROADS.

July 5.	Paving, etc.,	Guthrie, Okla.	June 28
July 5.	Gravel roads,	Covington, Ind.	June 28
July 5.	Paving, etc.,	Baltimore, Md.	June 28
July 6.	Walks,	Grand Valley, Ont.	June 28
July 6.	Paving,	Buffalo, N. Y.	June 28
July 6.	Paving, etc.,	New York, N. Y.	June 28
July 6.	Grading, etc.,	Columbia, Conn.	June 28
July 6.	Grading, etc., Advertised, Eng. News, June 21 and 28.	Salt Lake City, Utah.	June 21
July 6.	Grading, etc.,	Columbia, Conn.	July 5
July 7.	Grading, etc.,	East Haddam, N. H.	July 5
July 7.	Paving, etc.,	Jefferson City, Mo.	June 28
July 7.	Gravel road,	Vincennes, Ind.	June 28
July 7.	Improvement,	Cleveland, Ohio.	June 28
July 9.	Macadam,	Mount Holly, N. J.	June 21
July 9.	Road improvement,	Pittsburg, Pa.	June 21
July 9.	Paving, etc., Advertised, Eng. News, June 21.	Altoona, Pa.	June 21
July 9.	Paving, etc.,	Gladstone, Mich.	July 5
July 9.	Sidewalks,	Medicine Hat, Alta.	July 5
July 9.	Road,	Bemidji, Minn.	July 5
July 9.	Paving,	Ballston Spa, N. Y.	July 5
July 9.	Grading, etc.,	New York, N. Y.	July 5
July 9.	Grading, etc.,	New York.	June 28
July 10.	Grading,	Minot, N. Dak.	July 5
July 10.	Paving,	Centerville, Iowa.	July 5
July 10.	Paving,	Ashtabula, Ohio.	July 5
July 10.	Macadam, Advertised, Eng. News, June 21 to July 5.	Bedford, N. Y.	June 21
July 11.	Macadam, Advertised, Eng. News, June 21 to July 5.	Freehold, N. J.	June 21
July 11.	Improvement,	Delaware, Ohio.	June 21
July 11.	Grading, etc.,	Kenton, Ohio.	June 28
July 11.	Gravel roads,	Concord, N. H.	June 28
July 11.	Grading,	Concord, N. H.	July 5
July 12.	Grading, etc.,	New York, N. Y.	June 28
July 14.	Improvement,	Baltimore, Md.	June 28
July 14.	Macadam,	Claremont, N. H.	July 5
July 14.	Grading, Advertised, Eng. News, July 5 and 12.	Washington, D. C.	July 5
July 16.	Paving,	Danville, O.	July 5
July 16.	Grading,	Ashland, Ohio.	July 5
July 16.	Paving, Advertised, Eng. News, July 5.	South Orange, N. J.	July 5
July 18.	Paving, etc., Advertised, Eng. News, July 5 and 12.	Green Island, N. Y.	July 5
July 18.	Paving,	Fort Smith, Ark.	June 28
July 18.	Improvements,	Delaware, Ohio.	June 28
July 19.	Paving, Advertised, Eng. News, July 5 and 12.	Phoebus, Va.	July 5
July 20.	Paving,	Janesville, Wis.	July 5
July 20.	Stone roads,	New Brunswick, N. J.	July 5
July 23.	Improvements,	Canton, Ohio.	July 5
July 27.	Walks, etc., Advertised, Eng. News, July 5.	Fortress Monroe, Va.	June 28
Aug. 1.	Paving,	Peekskill, N. Y.	July 5
No date.	Paving,	Oswego, N. Y.	July 5

MISCELLANEOUS CONTRACTS.

July 5.	Tunnel changes,	Chicago, Ill.	June 28
July 5.	Dikes, Advertised, Eng. News, June 14 and 21.	New York, N. Y.	June 14
July 5.	Post-office boxes, Advertised, Eng. News, June 21 and 28.	Washington, D. C.	June 21
July 5.	Stone protection,	Ottawa, Ont.	July 5
July 6.	Drainage ditches,	Poplar Bluff, Mo.	June 28
July 7.	Portland cement, Advertised, Eng. News, June 21 and 28.	Chicago, Ill.	June 21
July 7.	Wharf, Advertised, Eng. News, June 14 to July 5.	Fort Monroe, Va.	June 14
July 7.	Pumps,	Garden City, Kans.	May 31
July 7.	Ry. work,	Georgian Bay & Seaboard Ry.	July 5
July 9.	Tunnel, Arthur's Pass, Advertised, Eng. News, June 7 to July 5.	New Zealand.	June 7
July 9.	Pumping station,	Williston, N. Dak.	June 14
July 10.	Dam, Advertised, Eng. News, June 7 to 28.	Cody, Wyo.	June 7
July 10.	Dredging, Advertised, Eng. News, June 21 to July 5.	Columbus, Ohio.	June 21
July 10.	Concrete abutments, Advertised, Eng. News, June 21 to July 5.	Columbus, O.	June 21
July 10.	Aqueducts, Advertised, Eng. News, June 21 to July 5.	Columbus, Ohio.	June 21
July 10.	Locks, Advertised, Eng. News, June 21 to July 5.	Columbus, Ohio.	June 21
July 10.	Engineering supplies,	Panama.	June 28
July 10.	Ditch,	Pocahontas, Iowa.	June 28
July 11.	Canal, Advertised, Eng. News, June 21 to July 5.	Cody, Wyo.	June 21
July 11.	Butterfly dam, Advertised, Eng. News, May 17.	Chicago, Ill.	May 17
July 11.	Dredging, Advertised, Eng. News, June 14 to July 5.	Detroit, Mich.	June 14
July 11.	Excavation,	Sandusky, Ohio.	July 5
July 12.	Railway ties,	Ottawa, Ont.	July 5
July 12.	Rebuilding locks, Advertised, Eng. News, June 21 to July 5.	Columbus, Ohio.	June 21
July 12.	Portland cement, Advertised, Eng. News, June 21 to July 5.	Columbus, Ohio.	June 21
July 14.	Canals,	Leesburg, Fla.	June 28
July 16.	Dredging, Advertised, Eng. News, June 21 to July 12.	Biloxi, Miss.	June 21
July 16.	Monument,	Palestine, Tex.	June 14
July 16.	Railway, Advertised, Eng. News, July 5 and 12.	Cairo & Thebes.	July 5
July 17.	Concrete walls, Advertised, Eng. News, July 5.	Ithaca, N. Y.	July 5
July 19.	Dredging,	Boston, Mass.	June 21
July 19.	Concrete dam, Advertised, Eng. News, June 21 to July 5.	Roscoe, Ohio.	June 21
July 19.	Dredging, Advertised, Eng. News, June 21 to July 5.	Roscoe, Ohio.	June 21
July 21.	Air compressors,	Charleston, S. C.	June 28
July 23.	Ditch,	Spirit Lake, Iowa.	July 5
July 24.	Steel,	Olongapo, P. I.	June 28
July 24.	Steel bars, Advertised, Eng. News, June 21 to July 5.	Billings, Mont.	June 21
July 24.	Canal widening, Advertised, Eng. News, June 7.	Detroit, Mich.	June 7
July 25.	Canal,	Albany, N. Y.	June 28
July 27.	Repairing dam,	Cincinnati, Ohio.	June 28
July 30.	Pile piers, Advertised, Eng. News, July 5 and 12.	Manitowoc, Wis.	July 5
July 31.	Canal, Browning,	Mont.	June 7
Aug. 7.	Pumping plant, Advertised, Eng. News, June 21 to July 19.	Billings, Mont.	June 21
Aug. 30.	Tunnel, Advertised, Eng. News, June 21 to July 26.	Boston, Mass.	June 21
Aug. 30.	Tunnel,	Salt Lake City, Utah.	June 21
Sept. 4.	Railway supplies, Advertised, Eng. News, Apr. 26.	Siam (Foreign).	Apr 26
Sept. 4.	Cars, Advertised, Eng. News, May 8 and 10.	Bangkok, Siam.	May 31
Sept. 4.	Railway ties,	Ottawa, Ont.	July 5
Sept. 12.	Locomotives, Advertised, Eng. News, May 3 and 10.	Bangkok, Siam.	May 31
Oct. 1.	Lock, Advertised, Eng. News, July 5 to Sept. 27.	Donaldsonville, La.	July 5
Oct 15.	Drains,	Rio Grande do Sul, Brazil.	May 31
Oct. 15.	Steel sheds,	Manila, P. I.	July 5
No date.	Steam shovel work, Advertised, Eng. News, June 28.	Davenport, Iowa.	June 28
No date.	Sinking coal shafts, Advertised, Eng. News, July 5 to 26.	South Fork, Pa.	July 5

CIVIL SERVICE EXAMINATIONS.

July 5.	R. R. Transportation Agt.,	Wash., D. C.	June 7
July 5.	Hospital Interne,	Panama.	June 7
July 5.	Civil Engr.,	Hot Springs, Ark.	June 7
July 5.	Arch. Draftsman,	Tompkinsville, N. Y.	June 21
July 5.	Pumping Engr.,	Fort McPherson, Ga.	June 21
July 6.	Medical Interne,	Washington, D. C.	June 7
July 7.	Leveler,	Albany, N. Y.	June 21
July 7.	Asst. Civil Engr.,	Albany, N. Y.	June 21
July 11.	Irrigation Draftsman,	Arizona.	June 21
July 18.	Engr. and Miller,	Arizona.	June 21
Aug. 8.	Surveyor,	Philippine Islands.	July 5
Aug. 8.	Arch. Draftsman,	Tompkinsville, N. Y.	July 5
Aug. 15.	Arch. Draftsman,	Philippine Islands.	July 5

TO ENGINEERS AND CONTRACTORS

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

ADDRESS

Wainwright A. S. Randall, Editor,
The Construction News Department.

Proposed Work

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Address, Construction News Department

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ALASKA CENTRAL.—At the recent annual meeting of this company the stockholders arranged to secure funds to finance the line. An agreement was made with the TANANA CONSTRUCTION CO. to complete the road as far as the Chicalon Fields, 150 miles north, to the southern terminus at Seward. The work is to be finished by Jan. 1, 1907.

ABILENE & NORTHERN.—It is reported that Ed. S. Hughes, Pres. of the Abilene & Northern Ry. Co., has announced that 24 miles of grade have been completed and that tracklaying will begin in August. Line is to run from Abilene to Stamford, Tex. Previously noted.

CONTINENTAL TRANSPORTATION CO.—The Continental Transportation Co., which will build a railroad from Bingham Junction to Wasatch and thence to Alta, Utah, has filed articles of incorporation at Salt Lake City. The company owns the lease of the Rio Grande Western Co. between Sandy and Wasatch, and all except five shares nominally held by Henry M. Crowther, E. M. Carroll, S. S. Janney, J. H. Hurd and W. C. Hurd are owned by the Consolidated Mines & Smelters Corporation of New York. The company, which will build a line 16 miles long, is capitalized at $750,000. The cost of construction and equipment will be $100,000.

CAIRO & THEBES.—Bids are asked until noon, July 16, for construction of first 5½ miles of road-bed, approximately 550,000 cu. yds. of grading, etc., between Cairo and Beech Ridge, Ill. J. L. Armstrong, Ch. Engr., Cairo, Ill. (Advertised Engineering News.)

CHATTANOOGA NORTHERN. — Incorporated in Tennessee to build a line 20 miles long from Chattanooga, Tenn., to Walden's Ridge, to develop mineral lands. The Chattanooga Company, Ltd., of which W. G. M. Thomas, of Chattanooga, is Gen. Mgr., is said to be largely interested in the project. The incorporators are W. G. M. Thomas, T. MacClellan, L. H. Thomas and J. H. Thomas. Thomas Crewdson, of London, England, is interested.

CAIRO & KANAWHA.—It is reported that at a recent meeting of the directors of this company it was voted to extend the road south ten miles, to the Little Kanawha River. The present line is 18 miles long from Cairo, W. Va., on the B. & O., south to Macfarlan. S. A. Moore is Gen. Mgr., at Philippi, W. Va.

CALIFORNIA.—The Great Western Gold Co. is said to be planning to build a line from Redding, Cal., to the Ingot Smelter, 26 miles, at a cost of $200,000.

CALIENTE & PIOCHE.—This company, recently incorporated in Utah, is to build a 33-mile railroad from Caliente to Pioche, in Utah over an old grade. It is said that the road will be built this fall and will act as a feeder for the San Pedro, Los Angeles & Salt Lake R. R. E. G. Tilton is Ch. Engr., at Los Angeles, Cal. The incorporators are W. H. Bancroft, J. Ross Clark, W. H. Comstock and others.

CANTON, ABERDEEN & NASHVILLE.—A press report from Aberdeen, Miss., states that the Illinois Central Railroad will run a survey to extend the Canton, Aberdeen & Nashville line about 100 miles, to Sheffield, Ala. A. S. Baldwin is Ch. Engr., at Chicago, Ill.

CUMBERLAND & RANDOLPH.—A mortgage has been filed for the Empire Trust Co., of New York, it is said, for an amount not to exceed $1,000,000, on the Cumberland-Randolph Ry., of which E. W. Speed, of Aberdeen, N. C., is Pres., and T. J. Edwards, of Providence, R. I., Secy. The road was chartered two weeks ago, and has bought from the W. C. Petty estate the 99-year lease obtained by Mr. Petty from the Seaboard Air Line for the Carthage railroad from Cameron to Hoiliston. The company will build from Cameron to Fayetteville, and then northwest to Hoiliston.

GEORGIAN BAY & SEABOARD.—Bids are asked until noon, July 7, by J. W. Leonard, Pres., at Toronto, Ont., for grading, bridging, fencing, track laying, ballasting and other work required, for building a line from Victoria Harbor to a point connecting with the Canadian Pacific between Peterborough and Havelock. Plans and specifications can be examined at the office of the Division Engineer of Construction, 118 King St. West, Toronto.

HOUSTON BELT & TERMINAL.—JOHNSON & REED, of Houston, Tex., have been awarded the contract for building the first section of eight miles of this road at Houston, Tex. The line will be about 30 miles long. It is to be built in the interest of the Trinity & Brazos Valley and the Colorado Southern, New Orleans & Pacific.

HARTWELL & WASHINGTON.—This company, recently chartered, has elected directors as follows: W. O. Jones, W. D. Tutt and W. F. Anderson, of Elberton, Ga.; James H. Skelton, J. D. Matheson and D. C. Alford, of Hartwell, Ga.; W. J. Adams and J. M. Moss, of Wilkes County; M. A. Pharr, of Washington, Ga., and V. E. Hudgins, of Norcross, Ga.

LOUISVILLE & ATLANTIC.—This company, which operates a line from Versailles, Ky., on the Southern, southeast to Beattyville, 101 miles, is making surveys for building an extension east from its present eastern terminus at Beattyville, through Lee, Wolfe, Breathitt, Magoffin and Floyd Counties, about 50 miles, it is reported. R. N. Hudson, Versailles, is Gen. Mgr.

LOUISIANA EAST & WEST.—We are advised by H. P. Mobberly, Ch. Engr., Bunkie, La., that contracts have been let as follows for building the line from Bunkie to Eola, Black Lake, Ville Platte, Chataignier, Eunice, La.: B. DICKINSON, New Orleans, La., 10-mile section; CARNEY, McFARLIN & ANDREWS, 10-mile section; M. TANSEY, Alexandria, La., 16 miles. Six miles of track laid and 75% of grade is completed. It is expected to have track laid to Eunice by Oct. 1, 1906. W. D. Haas is Pres., Bunkie, La.

MADISONVILLE, HARTFORD & EASTERN.—The Walton, Wilson Rodes Co., Knoxville, Tenn., desires to sublet 56 miles of work on this road, consisting of grading, masonry, concrete and pile and trestle work. As noted last week, under Louisville & Nashville, this firm was awarded the contract to build 56 miles of road for this company. The new line will be a branch known as the Madisonville, Hartford & Eastern R. R., and will form a connecting link between the St. Louis and Louisville lines of the Louisville & Nashville. Geo. W. Feagin is Ch. Engr., Hartford, Ky.

MIDLAND VALLEY.—This company is reported to have under consideration a proposition from the Texarkana Board of Trade to extend the road from the present southern terminus at Hoye, Ark., south to Texarkana, about 150 miles. F. A. Molitor is Ch. Engr., St. Louis, Mo.

MISSOURI.—B. D. REILLY, of Springfield, Mo., is reported to have contract for building a 10-mile railroad for the Sligo Furnace Co., from Dillard to Bixby, Mo. C. L. Rogers is Gen. Mgr., at Sligo, Mo.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—It is announced that, after about two years' consideration, this company has begun work on a line giving it an entrance into St. Paul, Minn. The preliminary work probably will be completed by November, 1906. The company at present enters the city over the Northern Pacific tracks. The cost of the proposed line will be about $2,000,000. The plans call for the building of a double-track 2½ miles from the Soo Junction west of the Cortlandt St. bridge to the terminal property, which has been bought at Seventh and Kittson Sts. Near the Westminster bridge it will be necessary to build a tunnel 1,500 ft. long under the Great Northern and Northern Pacific tracks. There will be a number of bridges over important thoroughfares. Thomas Green is Ch. Engr., at Minneapolis. Alex. Amos is Supt. Bridges and Bldgs.

OREGON R. R. & NAVIGATION CO.—J. P. O'Brien, Vice-Pres. and Gen. Mgr., at Portland, Ore., in an announcement in the Portland Chamber of Commerce Bulletin states that "the close of the year 1906 will see all former attempts at railroad building and betterment by the Harriman interests in Oregon surpassed, one immense appropriation of $4,160,000 having been made for new roads in the state, making a grand total of $24,000,000 for the years 1905 and 1906 for new lines, betterment of old lines, and expenditures in the City of Portland—evidences of the great faith our people have in the city and state, and which means that many new, rich agricultural, horticultural and mineral sections will be brought in closer touch with the metropolis of the Pacific Northwest and other markets of the world. In addition to the $4,160,000, there is $3,200,000 for the line between Drain and Marshfield, 81 miles, contract for which will shortly be let; $2,000,000 for the 71 miles between Riparia and Lewiston; $1,306,000 for the 63 miles between Elgin and Joseph; $82,560 for the St. Johns extension of three miles; $147,210 for the Springfield-Henderson cut-off, and $43,647 for the LaFayette-St. Joseph cut-off. The Lewiston-Grangeville line is 78 miles, and represented a large expenditure. The 45 miles of line between Arlington and Condon cost $700,000, and the sum of $37,850 was spent on the line between Kahlotus and Connell, making a total of $11,677,267 for the years 1905 and 1906.

"The sum of $1,615,706 was spent last year on the Southern Pacific, the replacing of 182 miles of 80-lb. steel rails between Ashland and Saginaw, costing $838,337; new steel bridges, $325,233; 45 miles of new ballast, $85,250; new yards and buildings, $89,236; fills to replace bridges, $297,650. The expenditure of the Oregon Railroad & Navigation Co. amounted to $1,141,822; new shops at Albina, $328,043, eleven new depots, $182,000; relaying track with new rails, $41,779; block signal system, $94,800; new rolling stock, $425,790; wood-preserving plant at Wyeth, $89,410. This year the Oregon Railroad & Navigation Co. has planned to spend $302,357 for new steel bridges, $169,000 for fills to replace bridges, $525,000 for new equipment, and $550,000 for rebuilding track with heavy steel, making a total expenditure of $1,546,857. On the main line of the Southern Pacific from Saginaw to Portland, $1,129,000 will be expended in rebuilding the track with heavy steel rails. The new steel bridges will cost $502,000, and the fills to replace bridges, $137,000. The 20 large locomotives and 500 freight cars ordered represent an expenditure of $2,401,500. The sum of $150,000 has been set aside to equip all locomotives on the Oregon Railroad & Navigation Co., west of Umatilla, and on the Southern Pacific, north of Ashland, with oil burners and to install tanks.

"At the present time we are maintaining a large force of men in the field, and no doubt some most interesting announcements in addition to the above will be made before the close of the year. With a line completed across Central Oregon from Natron to Ontario, a branch south, east of the Cascades, towards Klamath Falls; lines south along the Deschutes and John Day Rivers, and a line south from Shaniko connecting with the Natron-Ontario road, wonderful will be the development of those sections of the state." Contracts will be let soon for work not under way now. Tracklaying was begun on June 21 on the branch from Elgin, Ore., to the mouth of the Wallowa River, 17 miles. This part of the line is being built by GEORGE McCABE, of Portland, Ore. ERICKSON & PETTERSON, of San Francisco, Cal., have the contract for extending the line from the mouth of Wallowa River to Joseph, 47 miles. G. W. Boschke is Ch. Engr., at Portland.

PEACH RIVER & GULF.—This company, which now operates 11 miles of railway from Oaklawn, Tex., southeast to Bartie, connecting with the Gulf, Colorado & Santa Fe, at Timber, and with the Houston, East and West Texas, at Midline, will extend its line from Midline southeast to Beaumont, about 65 miles; and also from Timber northwest to a point on the International & Great Northern between Conroe, where that road crosses the Gulf, Colorado & Santa Fe, and Willis, approximately 12 miles. R. W. Luttrell is Ch. Engr., at Galveston, Tex.

PENNSYLVANIA R. R.—The directors of the Pennsylvania Railroad Co., according to the Philadelphia "Public Ledger," have approved a supplemental construction and equipment list providing for the expenditure of about $20,000,000 for equipment. This expenditure will be in addition to that of $42,000,000 set aside to pay for 33,000 freight cars and 313 locomotives now in process of delivery, for which the French loan was effected. The greater portion of the appropriation will be used in buying freight cars and locomotives. Only a comparatively small amount will be set aside for construction work. It is said that the company will soon enter the market for 15,000 freight cars of 50-ton capacity, and that President Cassatt will give an order to the Baldwin Locomotive Works for 300 locomotives, to be delivered in the course of the year.

TEXAS.—We are officially advised that an approximate estimate of railroad mileage (main line) constructed in Texas during the six months ending June 30, 1906, is as follows: Beaumont & Great Northern, between Trinity and Onalaska, 15.7 miles; Galveston, Harrisburg & San Antonio, Stockdale southeast, 38.3 miles; Houston & Texas Central, between Mexia Junction and Jewett, 27 miles; Kansas City, Mexico & Orient, between Sweetwater and Knox City, 21.9 miles; Pecos & Northern Texas, Canyon City south, 0.8 mile; St. Louis, Brownsville & Mexico, between Refugio and Algoa, 26.6 miles; Trinity & Brazos Valley (Mexia south 52 miles, vicinity of Bobbin 25 miles, Teague north 12 miles), 89 miles; Wichita Valley, Seymour to Weinent, 33 miles; total, 252.3 miles.

Approximate estimate of railroad mileage (main line) constructed in Texas during the year ending June 30, 1906: Beaumont & Great Northern, Trinity to Onalaska, 19.7 miles; Galveston, Harrisburg & San Antonio, Stockdale, southeast, 38.3 miles; Houston & Texas Central, Mexia Junction to Jewett, 28 miles; Kansas City, Mexico & Orient, Sylvester to Knox City, 55.9 miles; Orange & Northwestern, Buna to Newton, 31.2 miles; Pecos & Northern Texas, Canyon City south, 0.8 mile; St. Louis, Brownsville & Mexico, between Refugio and Algoa, 127.6 miles; Trinity & Brazos Valley (Mexia south 52 miles, vicinity of Bobbin 25 miles, Teague north 12 miles), 89 miles; Wichita Valley, Seymour to Weinent, 33 miles; total, 423.5 miles.

Railroad mileage constructed and in operation in Texas on June 30, 1905, as shown by the fourteenth annual report of the Railroad Commission of Texas, 11,745 miles; additional mileage constructed, but not included in report, 15 miles; total mileage constructed and in operation in Texas on June 30, 1906, 12,183.5 miles. The above does not include some 250 miles of "logging" railroad and other private railroad, which are not regarded or recognized as common carriers by the Railroad Commission of Texas; nor does it include some 50 miles of electric interurban railroad now in operation in the state.

The following is an approximate statement of the railroad mileage now under actual construction in Texas: Galveston, Harrisburg & San Antonio, between Stockdale and Cuero, 8.4 miles; Houston & Texas Central, Jewett to Navasota Junction, 66 miles; Houston Belt & Terminal, in the City of Houston, 6 miles; Kansas City, Mexico & Orient, between Red River and San Angelo, 158 miles; Pecos & Northern Texas, Canyon City to Plainview, 56 miles; Trinity & Brazos Valley, between Houston and Waxahachie, 138 miles; Texas Central, Stamford west, 45 miles; Wichita Valley, Weinent to Abilene, 67 miles; total 544.4 miles. In addition to the above there is something more than 1,000 miles of railroad projected and chartered for immediate construction, some of which is reported as having been contracted for construction, and the greater portion of which will no doubt be completed within the next few years. There is also several hundred miles of electric interurban projected within the state, some of which has been chartered, and all of which may be regarded as being in territory favorable and whose prospective business will warrant fully the construction of such projects.

Statement of the railroad mileage (main line) constructed and in operation in Texas on June 30th of the several years, beginning June 30, 1891, taken from the annual reports of the Railroad Commission, (1) miles of railroad; (2) increase over preceding year:

	(1)	(2)
1891	8,654.15	.....
1892	8,816.22	162.07
1893	9,088.21	271.99
1894	9,153.60	65.39
1895	9,290.70	137.10
1896	9,437.71	147.01
1897	9,484.01	46.30
1898	9,540.21	56.20
1899	9,702.07	161.86
1900	9,867.07	165.00
1901	10,153.84	286.77
1902	10,616.93	463.09
1903	11,080.39	463.46
1904	11,536.11	455.72
1905	11,744.98	208.87
1906 (approximate)	12,183.50	438.52

Total increase in railroad mileage in Texas in 15 years, 3,529.35 miles. Average increase in mileage per year, 235.29 miles. R. A. Thompson is Ch. Engr., and L. J. Story, Chn. R. R. Commission.

TRANSCONTINENTAL RY. — Bids are asked until noon, July 12, for 535,000 railway ties. Bids are asked also until noon, Sept. 4, for 1,010,000 railway ties. Hugh D. Lumsden, Ch. Engr., Ottawa, Ont.

WESTERN PACIFIC.—V. G. [illegible], Pres. and Ch. Engr. 284 Bacon [illegible], Vice-land, Cal., states that track [illegible] Oakfrom the Denver & Rio Grande [illegible] laid Lake City, Utah, west 12 miles; [illegible] Salt work will continue steadily westw[illegible] that the laying in California is to begin [illegible] track The line, from Salt Lake City to [illegible] just cisco, will be 924 miles long.

ELECTRIC RAILWAY

The names of parties awarded contracts are printed in capital letters.

SYRACUSE, N. Y.—The Syracuse, Lake Shore & Northern Railroad Co. has filed certificate of extension from Baldwinsville to Fulton, it is reported. Work may be begun this fall. Thomas H. Mather is Ch. Engr., at Syracuse.

BROOK HAVEN, N. Y.—The Suffolk Traction Company, of Patchogue (L. I.), N. Y., capitalized at $1,200,000, was incorporated at Albany on June 27 to construct a steam railroad 28 miles long between Brook Haven and Babylon. The line will run through Brook Haven, Bellport, Patchogue, Blue Point, Bayport, Sayville and Islip. The directors are Clinton L. Rossiter, D. H. Valentine, Gilbert Seibert, W. M. F. Sheehan, D. L. [illegible], Charles A. Collins, W. H. Jaycox, [illegible] G. Wiggins, G. Roe and Benjamin E. W[illegible].

BALTIMORE, MD.—Regarding the report that electricity is to displace steam as motive power on the Maryland & Pennsylvania R. R., which runs from Baltimore to York, Pa., 79 miles, and from Baltimore to [illegible], 26 miles, John Wilson Brown, Pres., advises us that "the electrifying of this railroad is only a future possibility."

FRONT ROYAL, VA.—We are officially advised that contracts have not been awarded yet for construction of the Front Royal, Rappahannock & Tidewater R. R. Co. line from Front Royal through Chesters Gap to Sperryville, via Washington, which will be from 23 to 25 miles long. No surveys have been made nor has right-of-way been secured. Hugh E. Nayler is Secy. of the Board of Trade.

ORANGEBURG, S. C.—A commission has been granted for the South Carolina Public Service Corporation, which proposes to build an electric railway from Orangeburg to the town of Ferguson, on the Santee River, 25 miles, and also to operate steamboats. The incorporators are Jos. T. Timmes, J. C. LaVin, Jos. A. Bill, Geo. Fleck, Jr., and John P. Bonney, of Brooklyn, N. Y., and J. A. Graig, R. H. Jennings and Sol Kohn, of Orangeburg, S. C.

MONTGOMERY, ALA.—The Montgomery Commercial Club is reported to be interested in a plan to build an electric railway from Montgomery to Enterprise and Geneva, Ala., about 100 miles. Charles F. Moritz, of Montgomery, and E. F. Ellsberry, of Geneva, are reported to be concerned.

NEW ORLEANS, LA.—It is stated that the Belt Railroad Commission has requested bids for building its proposed single track from Audubon Park to Louisa St., about seven miles.

JACKSON, TENN.—The Jackson Railway & Light Co., capital $600,000, has been incorporated to build an electric railway in Jackson and also in Madison County. About 37 different routes are described. The incorporators are S. S. Bush and Attilla Cox, of Louisville, Ky.; Alan McDonald, John Wisdom and Charles D. Lehmkuhl, of Jackson, Tenn.

PARIS, KY.—We are officially advised that the Paris & Mount Sterling Ry. Co. will let contracts for construction work as soon as line is located and capital is secured. John T. Collins, North Middletown, Ky., is Pres. The line will be 23 miles long, from Paris to North Middletown and Mount Sterling. Right-of-way is being secured. The motive power will be either steam or electricity. Subscriptions are being taken.

CHATTANOOGA, TENN.—C. H. Fiske, of Detroit, Mich., Gen. Mgr. for the proposed electric railway from Nashville to Chattanooga, is reported as saying that all surveys into Chattanooga will shortly be completed, and that the third-rail system will be used.

LEXINGTON, KY.—George Horine, J. C. Nesbit and J. P. Mullin have finished survey for the proposed electric railway from Lexington along the Russell Cave turnpike to Cynthiana, Ky., about 26½ miles. The line will also connect Centerville, Jackstown and Broadwell. Estimated cost, $18,000 per mile. Eastern capitalists are said to be interested.

ASHLAND, KY.—Thomas Boggess, Jr., Secy. of the Ashland Interurban Railway Co., states that engineers are now in the field making surveys for the line, which will be 20 miles long.

CLEVELAND, OHIO.—Frederick J. Harrison, representing the Cleveland, Brooklyn & Elyria Railway Company, which claims to have secured a right-of-way between Brooklyn, on the outskirts of Cleveland, to Elyria, is endeavoring to get into the center of the city over a route independent of the Cleveland Electric Railway Co. Mayor Tom Johnson has agreed to cooperate with the company in securing this route, it is reported, providing it will agree to give a 3-cent fare within the city limits, and it is said that no franchise will be granted except on this basis.

HILLSBORO, OHIO.—The Hillsboro, Belfast & Peebles Traction Company has been organized with the following officers: J. M. Hughes, Lovett, Ohio, Pres.; J. W. Lotherman, Belfast, Vice-Pres.; W. B. Coehrane, Hillsboro, Secy. The company proposes to build through Belfast to Peebles, with a branch to the Ohio River at Aberdeen. At Hillsboro this line will connect with the Cincinnati & Columbus Traction Company, now operating to Cincinnati. It is stated that arrangements have been made for financing a portion of the line.

ATHENS, OHIO.—The Nelsonville, Athens & Gloucester Traction Co. has secured a franchise in Athens, it is reported. F. L. Carpenter, Pres. of the company, states that he has the project financed, and that work will be started this fall.

LE ROY, ILL.—We are officially advised that the Le Roy & Southwestern R. R. Co. will let contracts soon for constructing its line from Le Roy to Waynesville, 28 miles. A. H. Shelby, Bloomington, Ill., is Pres. Right-of-way is secured. Motive power will be either steam, electricity or gasolene.

CENTERVILLE, ILL.—The East Side Belt Ry. Co. has been incorporated in Illinois with headquarters at Centerville, Ill., for the purpose of building a belt line around East St. Louis. The proposed line will start on the bank of the Mississippi River about four miles above East St. Louis, thence around the city to a point near Cahokia, about five miles below East St. Louis. Ed. L. Thomas, of Belleville, Ill., is one of the directors. The preliminary survey is being made by W. J. Claiken, Civil Engineer, of East St. Louis.

MURPHYSBORO, ILL.—We are officially advised that the Southern Illinois Traction Co. has partly surveyed its line from Murphysboro to Carbondale and Herrin, 22 miles. Right-of-way is partly secured. Time is not decided for receiving bids. Phil. Decker is Pres. and W. F. Hughes is Ch. Engr., at Murphysboro. Company was recently incorporated.

SEDALIA, MO.—J. W. Mellor, Chn. of the Executive Committee of the Missouri Interurban Ry. Co., the proposed line from Sedalia to Jefferson City, via Otterville, Bunceton, Prairie Home and California, advises us that question of awarding contracts will be considered at the meeting to be held on July 12th, at Sedalia. B. H. Colby, 812 Security Bldg., St. Louis, is Chief Engr.

CHEYENNE, OKLA.—The Clinton-Cheyenne & Canadian Interurban Railway Co., capital $1,000,000, has been chartered here. The officers and directors are: C. S. Gilkerson, Pres.; L. L. Collins, Vice-Pres.; R. V. Converse, Secy. and Treas.; L. W. Pate and W. T. Bownes, all of Cheyenne. The road will be built from Clinton to Canadian, in Hemphill County, Texas, and will extend through Roger Mills, Custer and Day Counties in Oklahoma, and a branch line will be built from Cheyenne to Mangum.

LEAVENWORTH, WASH.—M. O. Tibbits, of Cashmere, Wash., Pres. of the Big Red Apple Ry. Co., advises us that this company has just been organized by local men for purpose of making preliminary surveys, securing right-of-way, getting contracts for freight, etc., and interesting outside capital. The proposed railway would run from Leavenworth to Wenatchee, Wash., about 25 miles. D. D. Olds, Wenatchee, is Gen. Mgr. Surveys have not been made yet.

SEATTLE, WASH.—It is reported that the Seattle Electric Co. is preparing to build a line intersecting Freemont and University Heights, planning to complete it before the opening of the Alaska-Yukon-Pacific exposition. M. Lowd is Ch. Engr.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

MORRISVILLE, VT.—The contract for construction of a dam to cost over $50,000 at Cady's Falls in Morrisville has just been awarded to WARD & DOUGLASS, of Woodsville, N. H. The dam is projected by the village of Morrisville for the purpose of securing power for an electric light plant. In addition the village will sell power to manufacturing plants.

DERBY, CONN.—The Derby Gas Co. has retained W. S. Barstow & Co., 56 Pine St., New York, as engineers in making additions to their electric power plant and distributing system. The present plant will be remodeled to conform with the new installation.

FREDONIA, N. Y.—Plans are being prepared for construction of a new power plant at Fredonia, which, it is estimated, will cost $10,000.

LEBANON, PA.—The People's Electric Co., of Lebanon, has been chartered at Harrisburg. The charter allows the company to make and sell electricity for lighting, heating and power purposes. The directors of the company are George H. Heisey, of Lancaster; E. R. Heisey, of York; George B. Woomer, of Lebanon, Solicitor and Attorney; Frank C. Wright, M. A. Heisey and Charles Davies, of Marietta; E. L. Baker and John A. Mouk, of Lancaster, and E. E. Brunner, of York.

DELTA, PA.—The Delta Water Power Co., to operate an electric plant at Castle Finn, has been organized. The incorporators are J. Howard Stubbs, Robert L. Jones, John R. Williams, Edward W. Evans, Harry P. Reese and R. W. Ramsay. A charter has been applied for and as soon as it is granted work will be begun on the plant proper and it is expected that the company will be furnishing power to the business men of Delta and the surrounding country by Oct. 1. The present dam on the Muddy Creek will be enlarged and the mill just below the dam will be fitted up for a power-house.

WILMINGTON, DEL.—The Delmarvia Construction Co. has been organized for building an entirely new power plant and distributing system for serving residents of Wilmington. A new plant is now under construction and is designed entirely for steam turbines. Two 750-HP. Westinghouse-Parsons steam turbines, with a number of motors and generators, will be installed at the present time. The plant will furnish electricity to an alternating current distribution system of light and power.

WASHINGTON, D. C.—Bids are asked until noon, July 12, at the Office, Soldiers' Home, Washington, for erecting and equipping a power-house. The equipment will include steam laundry, refrigeration plant. Also tunnels and conduits for hotwater distribution from central station. Capt. J. S. Sewell is Constr. Officer. Estimated cost, $250,000. Adams & Schurt, Colvert Bldg., Baltimore, Md., are Des. Engrs.

RICHMOND, VA.—The Council Committee on Electricity has asked for authority to construct a municipal electric plant here, to cost about $250,000.

FORTRESS MONROE, VA.—Bids in triplicate are asked until noon, July 30, by Capt. R. H. C. Kelton, Q. M., for installing lighting fixtures in buildings at Fort Munro. (Advertised, Engineering News.)

MEMPHIS, TENN.—Plans are under way for the formation of a company to build an electric power plant on White River, 110 miles from Memphis, for the purpose of generating from 10,000 to 20,000 HP. It is estimated that the plant, which will cost about $1,000,000, will be able to furnish enough electricity to meet all the requirements of a city the size of Memphis. It is proposed to transmit the current to this city over wires having a capacity of 60,000 volts. The Mississippi River will be crossed by the wires, which will be elevated by lofty steel towers on either bank.

McMINNVILLE, TENN.—C. H. Fisk, of the Great Falls Power Co., which owns the power rights of the Caney Forks Falls, states that work on the plant to be built at McMinnville, will commence not later than August, and when completed will represent an investment of $3,000,000, and develop about 50,000 HP.

LEXINGTON, KY.—A power-house to furnish power for all the central Kentucky traction lines will be built at some point on the Kentucky River. The plant will cost $500,000.

DAYTON, OHIO.—The Citizens' Electric Light Co. has purchased the old stockyards property in West Dayton, and will erect a modern power plant on the site.

RICHMOND, IND.—The City Council has appropriated $35,000 for the purchase of new machinery for the electric light plant. Bids will be asked soon.

WAUKEGAN, ILL.—The Chicago & Milwaukee Electric Ry. Co., proposes to construct a power plant at Waukegan. Shepley, Rutan & Coolidge, Old Colony Bldg., Chicago, are Archs.; A. L. Drum, 624 American Trust Bldg., Chicago, is Consult. Engr.

MACON, ILL.—Macon is to have a new municipal lighting plant, to cost $10,000. Work will be commenced within a few days and the plant will be completed by fall.

HOLDREGE, NEBR.—Articles of incorporation for the Holdrege Lighting Co. with a capital stock of $75,000 have been filed with the Secretary of State. Edward A. Eames, is Pres., and Milo D. Eames is Secy.

OZONA, TEX.—Ozona Improvement Co., of Ozona, Crockett County, has been incorporated. Capital stock, $25,000. Incorporators are: John Young, Elam Dudley, L. B. Cox, J. C. Midkiff, P. L. Childress, J. R. Brooks and Charles E. Davidson, all of Ozona. It is proposed to install and operate an electric light and power plant.

DALLAS, TEX.—We are officially informed that the North Texas Securities Co. will construct ten plants in this state.

DURANGO, COLO.—An ordinance has been passed granting to Thomas L. Loftus a franchise and right to erect electric light and power plant, for the development and distribution of electricity in Durango.

BOULDER, COLO.—Westinghouse, Church, Kerr & Co. have been engaged by the Northern Colorado Power Co. as engineers and constructors of an extensive power and transmission plant in Boulder. The plant will cost $1,000,000 and will supply a number of towns in Colorado and Wyoming with electricity for illumination and the operation of street railways.

DALLAS, ORE.—Contracts will be let in the near future for the power station to be built by the Williamette Valley Co. The main building will be 50x100 ft. and of iron and concrete.

ONTARIO, ORE.—The City Council of Ontario has granted a 10-year franchise to the Idaho Light & Power Co. for an electric light system. The company will receive its power from the Payette River.

SWEETWATER, NEV.—The New Bodie Mining Co. is about to construct an electric generating station on the east of the Walker River, which will supply power for the mines of Aurora, Masonic, Bodie and southern Nevada. The plant will produce 10,000 HP. and will cost about $150,000. W. D. Searles is Ch. Engr.

IDAHO FALLS, IDAHO.—Bids are asked until 8 p. m., July 30, by D. T. Platt, City Clk., for constructing a power plant on Snake River for the city of Idaho Falls. (Advertised, Engineering News.)

MEADOWS, IDAHO.—J. E. Goodman and B. A. Chrisholm are planning to begin at an early date the building of an electric plant at Little Salmon Falls, about 16 miles north from this town. The power generated will be used for working the Huckleberry group of mines, on Granite Mountain.

MONTREAL, QUE.—The Montreal St. Ry. Co., R. M. Hannaford, Ch. Engr., is reported to have decided to erect two power houses, one in St. Henri Ward and the other in St. Denis Ward; also a large car shop in Hochelaga Ward, which will cost $200,000.

SHAWENEGAN FALLS, QUE.—BAILEY, JOHNSON & SAUNDERS, INC., Engrs., Buffalo, N. Y., have been awarded the contract to build a 16-ft. tunnel, 1,400 ft. long, at Shawenegan Falls for the Shawenegan Water & Power Co., of Montreal, to tap the St. Maurice River. Wallace C. Johnson is Ch. Engr., Montreal.

WINNIPEG, MAN.—A by-law has been passed authorizing the city to assume a debt of $3,250,000 to erect a power plant on the Winnipeg River. H. N. Ruttan is City Engr.

MEDICINE HAT, ALTA.—Bids are asked until 4 p. m., July 21, by William P. Morrison, for furnishing a quantity of supplies for the local gas works. The improvements intended will cost about $8,000.

EDMONTON, ALTA.—The City Council proposes to expend about $10,000 on additions to the power plant.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

NEWTON, MASS.—A bridge to be built of concrete will be erected across the Charles River at Newton. Irving T. Farnham is City Engr.

WESTFIELD, MASS.—Bids are asked until noon, July 10, by the Town Clerk, for steel track stringers, strengthening iron floor beams and rebuilding wooden floor of the Great River Bridge. Plans, specifications and bidding sheet are on file at office of Engineering News, New York. Oren E. Parks is Town Engr.

SOUTH CAMBRIDGE, N. Y.—Surveyors have been at work locating the approaches for a new iron bridge to be built one mile west of Lee's Crossing, near South Cambridge, on land belonging to John Dorr.

NORTH ELBA, N. Y.—A bridge is to be built between North Elba and St. Armand, over the Saranac River. The bridge will be 50 ft. long, from bank to bank, will have a double carriage way and two walks.

ALBANY, N. Y.—Bids are asked until noon, July 25, by the Superintendent of Public Works, for the State of New York, Albany, for erecting steel highway bridge superstructures at Fourth St., Waterford, Fort Miller, Ridge Road, two canal stations, Sylvan Beach, Mosquito Pt., Buffalo Road, Lydell Road, Lee Road and Spier's Road, estimated cost $102,123; also for erecting a steel highway superstructure over the Erie Canal at Saratoga Ave., Waterford, estimated cost $22,604. Henry A. Van Alstyne is State Engr.

DOYLESTOWN, PA.—We are officially informed that the following are the two lowest bids received June 25 by the Commissioners of Bucks County for constructing a concrete bridge over the Tohickon River: The Dailey Construction Co., Wycombe, Pa., $6,480; Nelson Construction Co., Chambersburg, Pa., $6,490. D. D. Nyce, Doylestown, was the only bidder for constructing a wooden covered bridge. His price was $7,800.

NORFOLK, VA.—A bridge will be constructed across Mackie's Creek by the Virginia & North Carolina R. R. Co. Plans have been approved by the War Department.

KINGSWOOD, W. VA.—The CANTON BRIDGE CO., of Canton, Ohio, is reported to have secured the contract for constructing a bridge over Cheat River. The structure to be 620 ft. long, containing four spans, each 155 ft. long, with a roadway 16 ft. wide, and to cost $22,000.

SPARTANBURG, S. C.—Bids are asked until July 11 by the County Commissioners, for erecting two bridges. D. M. Miles is Supv.

COVINGTON, GA.—The contract for the construction of a steel bridge across Alcovey River has been let to AUSTIN BROS., of Atlanta.

Plans and specifications have been prepared for the building of a steel bridge over South River at Island Shoals.

TAMPA, FLA.—VIRGINIA BRIDGE & IRON CO., Roanoke, Va., has contract to build bridge 116 ft. long over the Hillsborough River for the Tampa Northern R. R. Co. Benjamin Thompson is Engr.-in-Charge.

CHATTANOOGA, TENN.—The Lower Board of the City Council has authorized an appropriation of $9,500 for the 11th St. bridge. Robert Hooke is City Engr.

CLEVELAND, OHIO.—A bridge, to cost $76,000 to cross the ravine in Washington Park, is being planned. It is expected that the bridge will be built this year.

COLUMBUS, OHIO.—SCHILLINGER BROS. & CO., Chicago, have been awarded the contract by the County Commissioners to construct the encasing on superstructure of the Reed Avenue viaduct, at $12,900.

HAMILTON, OHIO.—A viaduct, to cost $60,000, will be built beneath the tracks of the Pennsylvania R. R. Co. in West Richmond.

WEST TOLEDO, OHIO.—A new bridge is to be built across Ten Mile Creek, at West Toledo by the Commissioners of Lucas County. The bridge will doubtless be for the joint use of trolley and team traffic.

LEMONT, ILL.—A reinforced steel concrete bridge will be built over the Des Plaines River. John J. New, James Ash and John F. Seiler are Highway Comrs.

NORTH CHICAGO, ILL.—The LAFAYETTE BRIDGE CO., of Lafayette, Ind., is reported to have secured the contract for constructing bridges at the new naval station here, at about $33,281.

TAYLORVILLE, ILL.—T. B. FISHER, of this city, has been awarded a contract to erect two iron bridges in Bear Creek Township.

VALLEY CENTER, KANS.—A steel bridge, 270 ft. long, will be built across the Little Arkansas River, by the CANTON BRIDGE CO., Wichita, Kans.

HELENA, MONT.—We are officially informed that the MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn., has secured contract to build tubular bridge, with wooden joists, at $20,000. The only other bid on same work was that of A. Y. Bayne & Co., at $23,600. P. R. Witmer is County Clk.

BUTLER, MO.—The lowest bid submitted for bridge building on June 16 was $43,000. The engineer's estimate was $27,000, and the bids were rejected. A readvertisement for bids has been ordered.

KINGSVILLE, TEX.—The St. Louis, Brownsville & Mexico R. R. Co. will construct six steel bridges across the Brazos, Colorado, Guadalupe, Lavaca, San Antonio and Nueces Rivers. These bridges will be of the draw variety to permit the passage of vessels. Jeff N. Miller is Gen. Mgr.

HEMPSTEAD, TEX.—A bridge to cost $8,888 is to be built over the Brazos River near Hempstead. The LEVERSEDGE BRIDGE CO., of Waco, has been awarded the contract.

PENDLETON, ORE.—The Oregon Railroad & Navigation Co. is planning to construct a steel bridge, with concrete piers, west of the city.

SEATTLE, WASH.—Bids are asked until July 7, by the Commissioners of Yakima County, for erection of a 160-ft. combination bridge over the Natches River. W. B. Newcomb is County Audr.

RENTON, WASH.—The INTERNATIONAL CONTRACTING CO., of New York, N. Y., is reported to have secured the contract for constructing a drawbridge over Cedar River, at Renton, at $11,400.

LOS ANGELES, CAL.—We are officially advised that the bids for the $15,000 bridge to be constructed at Trimmer, across Kings River, will be let about Jan. 1, 1907.

CORNWALL, ONT.—Bids are asked until July 16, by J. Mullin, Township Clk., for constructing four reinforced concrete and four ordinary concrete piers for bridges across River Aux Raisin, Cornwall Township.

LETHBRIDGE, ALTA.—Plans have been perfected by the Canadian Pacific Ry. Co. to construct bridge near Lethbridge. The plans call for a structure slightly more than a mile long and 300 ft. above the water level. The Canadian Pacific bridge will span the Belly River, and is to be built for the purpose of shortening and straightening the route between Lethbridge and Macleod. The grade of the new line will be much easier, and heavy loads can be carried at less cost. The work will be commenced at once.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—The Commissioners of Cumberland County have received bids and will soon sell bonds for $250,000, the money to be used for the erection of a new courthouse.

DURHAM, N. H.—Contract for the erection of a new building at New Hampshire College has been awarded to L. KILLAM, of Haverhill, Mass.

DURHAM, N. H.—Bids have been received and award will soon be made for the construction of a library building for the New Hampshire College of Agriculture, Durham, N. H. The building will be Colonial in style, 64 × 76 ft., two stories and basement, with a fireproof book stack-room, 35 × 36. The cost will be about $30,000. Geo. Oakley Totten, Jr., 808 17th St., N. W., Washington, D. C., is Arch.

BROOKLINE, MASS.—Bids received June 21 for the erection of a municipal gymnasium building were as follows: E. W. Clark & Co., Boston, $90,455; B. W. Neil, Brookline, $86,940; Jas. Driscoll & Son, Brookline, $85,780; B. F. Carroll, Brookline, $85,597. Pierce & Cox, of Boston, were low bidders for the heating and ventilating system, at $7,766, and F. B. Connor, of Brookline, for plumbing, at $3,843.

NEW YORK, N. Y.—M. Kurzman & Sons will erect a 12-story building, 32 × 100 ft., at 324 and 326 Fifth Ave., between 32d and 33d Sts., adjoining the Hotel Cambridge.

Snelling & Potter, Archs., 1170 Broadway, are preparing plans for the erection of a Vaccine Laboratory for the Board of Health.

The North Side Board of Trade, a Bronx organization, has incorporated a building company and will erect a building at a cost of $155,000.

An agreement has been reached between the Pennsylvania R. R. Co. and the United States Government whereby the latter will purchase a plot at the site of the new Pennsylvania terminal for $1,090,085 and erect a post-office.

The Twenty-first Street Construction Co. will erect an 11-story building, 50 × 82 ft., at 20 West 21st St., at a cost of $205,000. Henri Fouchaux is Arch.

St. Vincent's Hospital will build a new branch institution on Edgecombe Ave., from 163d to 164th St.

An issue of bonds amounting to $4,500,000, for the erection of school buildings, has been authorized by the Board of Aldermen.

NEW YORK, N. Y.—The following bids were received June 28, by John H. O'Brien, Fire Comr., for erection of complete building for a hook and ladder company, to be located on 63d St.: A. Nugent & Son, 103 East 125th St., $89,462; P. Gallagher, 1189 Broadway, $72,289; R. J. F. Gerstle & Co., 44th St. and First Ave., $70,711. Thomas Cockerill & Son, 147 Columbus Ave., $71,500; Tolmie & Kerr, 205 West 30th St., $72,557; Thomas B. Leahy Bldg. Co., 1 East 42d St., $72,873; P. J. Ryan, 314 West 44th St., $71,387; R. L. Walsh, 100 William St., $76,000.

ONEONTA, N. Y.—The School Board has decided to build a new high school at a cost of $100,000.

SYRACUSE, N. Y.—The Central New York Telephone & Telegraph Co. will let contracts soon for a building 33 × 132 ft., of steel, brick and stone, to cost about $125,000. H. F. Stevens is V.-Pres.

POUGHKEEPSIE, N. Y.—Bids were opened by the State Commission in Lunacy on June 27, for constructing, heating, plumbing, electric light wiring, fixtures and feeder cables from power-house, at the Chronic and Acute Buildings of the Hudson River State Hospital, Poughkeepsie, as follows: (1) To construct the Chronic Building complete, and do the heating, plumbing and electric work. (2) To construct the Acute Building complete, and do the heating, plumbing and electric work. (3) To construct both Chronic and Acute Buildings, and do the heating, plumbing and electric work. (4) Deduct from (1) or (3), if the construction, radiators, plumbing fixtures and electric work required for furnishing third story of Chronic Building are omitted: P. J. McCaffery, Utica, (1) $240,000, (2) $95,250, (3) $335,250, (4) $18,000; Peter Keeler Building Co., Albany, N. Y., (1) $234,900, (2) $98,980, (3) $330,000, (4) $17,000; The F. W. Carlin Construction Co., Brooklyn, (1) $347,000, (2) $149,000, (3) $496,000, (4) $20,000; O'Brien & Hoolihan Construction Co., Syracuse, (1) $262,171, (2) $116,287, (3) $378,000, (4) $16,389; Herman Probst, New York, (1) $302,357, (4) $9,400; James E. Leamy & Co., Syracuse, N. Y., (1)

$297,000, (2) $136,482, (3) $434,187, (4) $19,207; Morris Kantrowitz, Albany, N. Y., (1) $285,000, (2) $96,000, (3) $378,000, (4) $20,000; White Construction Co., Rochester, N. Y., (1) $244,800, (2) $97,612, (3) $340,000, (4) $11,000; Hudson Valley Construction Co., Albany, N. Y., (1) $233,400, (2) $103,000, (3) $331,400, (4) $12,800. T. E. McGarr, Capitol, Albany, N. Y., is Secy. of the Comn. George L. Heins is State Arch., Albany, N. Y.

MOUNT AIRY, PA.—J. E. & A. L. PENNOCK have been awarded the contract by Watson & Huckle, Archs., for the erection of the Krauth Memorial Library to be erected on the grounds of the Lutheran Theological Seminary at Mt. Airy. The library will be of stone, three stories high, covering an area 96 × 130 ft. and cost $50,000.

PHILADELPHIA, PA.—John T. Windrim, Arch., has awarded a contract to JOHN R. WIGGINS & CO. for the erection of the new office building for the Philadelphia Electric Co., at the corner of Tenth and Chestnut Sts. The structure will be six stories, 230 × 38 ft., and cost $500,000.

At a contract price of about $60,000 HENDERSON & CO. will erect an addition to the Girls' High School. J. Horace Cook, Board of Education, is Arch.

The Philadelphia Rapid Transit Co. is taking figures for the erection of a car barn and office building, 495 × 370 ft., at 26th St. and Allegheny Ave.

PHILADELPHIA, PA.—Bids are asked until noon, July 23, by Major C. A. F. Flager, U. S. Engr., Philadelphia, for erecting dwelling, barn, oilhouse, etc., at the Listons Range Rear Light Station, Del. (Advertised, Engineering News.)

WASHINGTON, D. C.—The Commissioners of the District of Columbia have awarded to DENESTI & BAIRSTOW, Washington, D. C., contract for the marble architectural figures for the outside walls of the new municipal building at 14th St. and Pennsylvania Ave., at $24,000. This is the last contract in connection with the municipal building.

WASHINGTON, D. C.—Contract has been awarded to JOHN M'GREGOR, 729 12th St., N. W., Washington, D. C., for construction of the Norwegian Legation, at 24th St. and Massachusetts Ave., Washington. The building will be brick and stone, fireproof, and will have four stories, 41x65 ft. Approximate cost, $50,000. Geo. Oakley Totten, Jr., 808 17th St., N. W., Washington, is Arch.

NORFOLK, VA.—John D. Rockefeller has declared his intention to erect a building for the Navy Department of the Young Men's Christian Association at the navy yard at Norfolk, Va., at a cost of about $300,000.

SAVANNAH, GA.—The SAVANNAH CUT STONE CO. has been awarded the contract for the erection of an apartment house for the G. W. J. DeRenne Estate, at about $60,000.

BIRMINGHAM, ALA.—We are officially informed that GEO. BAKER LONG, McCallie and Georgia Aves., Chattanooga, Tenn., has the contract to build a freight house for the Southern R. R. We are also advised that sub-contracts for excavation, concrete work, brick work, iron and steel work, lumber, mill work, plastering, metal sash and frames, automatic fire doors, roofing and corrugated iron, rolling steel doors, plumbing, heating, painting and glass, electric wiring and depot scales will be let from his office in the Lexington City National Bank Bldg. at Lexington, Ky.

FRANKFORT, KY.—Contract for the construction of the pediment of the State Capitol Building has been awarded to CHAS. H. NIEHAUS, 148 West 36th St., New York.

CLEVELAND, OHIO.—Contracts for the new "East" exchange building of the Cleveland Telephone Co in Prospect Ave, S. E., near East 55th St., have been let to JOHN GILL & SON, at about $125,000.

DEFIANCE, OHIO.—The Baltimore & Ohio R. R. Co. has awarded the contract for the new station at Defiance to P. A. BAKER & BROS., of Defiance, and D. W. DOORZBACK, of Sandusky.

ANN ARBOR, MICH.—The Alumni Association of the University of Michigan will erect a memorial building to cost $175,000.

SPRINGFIELD, ILL.—The Supreme Court Commission has accepted the plans of State Architect for the new Temple of Justice, to be erected opposite the state building. The building will be of stone, 168 × 92 ft., will be three stories high and cost $300,000.

FORT RILEY, KANS.—Bids for the construction of a set of buildings for a battery of field artillery, to cost $170,000, have been opened. The lowest bids for the construction work follow: One barracks for 140 men, J. B. Betts, Topeka, $46,210; a set of field officers' quarters, Ziegler & Dalton, Junction City, $13,349; a double set of captains' quarters, J. B. Betts, Topeka, $19,974; a double set of lieutenants' quarters, J. B. Betts, $18,894; one stable for 120 horses, Ziegler & Fisk, Junction City, $18,030; one gun shed, Ziegler & Dalton, Junction City, $19,004; artillery workshop, John Holmgren, Junction City, $1,894; one vegetable storehouse, John Holmgren, Junction City, $7,889.

RED WING, MINN.—Contract for the construction of a depot and division offices for the C. G. W. Ry. Co. has been let to W. J. LONGCOR, of Red Wing.

ST. LOUIS, MO.—The Mississippi Valley Trust Co. has purchased the block bounded by Olive, Locust, 17th and 18th Sts. and will build a 10-story building, covering the entire block for Butler Bros., 13th St. and Washington Ave.

LITTLE ROCK, ARK.—The Little Rock City Council has passed an ordinance ceding territory to the St. Louis, Iron Mountain & Southern Ry. Co., upon a portion of which a $400,000 Union depot will be erected by that company. The new station will cover two acres of ground.

BENICIA, CAL.—Bids are asked until 11 a. m., July 16, by G. G. Halladay, Clk. Bd. County Supervisors, for the erection of a jail.

SALT LAKE CITY, UTAH.—A. E. Welby, Gen. Supt. of the Rio Grande & Western Pacific Ry. Co., has announced that that company will build a passenger station here at a cost of $400,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

WEST SPRINGFIELD, MASS.—The H. A. HANSCOM CO., 53 State St., Boston, has been awarded contract for water-works at West Springfield. Cost, about $10,000. George N. Merrill & Co., Springfield, are Town Engrs.; C. M. Woodward is Secy. Water Comrs.

FRAMINGHAM, MASS.—Bids are asked until July 16 by the Sewer Committee for installing pumping machinery of 3,000,000 gallons capacity.

NEW YORK, N. Y.—Bids are asked until 2 p. m., July 11, by William B. Ellison, Comr. Water Supply, Gas and Electricity, for furnishing and connecting four pumping engines, complete, in the Ridgewood, North Side pumping station, Atlantic Ave., Boro. of Brooklyn; also for furnishing vitrified salt-glazed, stoneware bug spigot pipe to Borough of Brooklyn; also for laying mains in various streets in the Boroughs of Manhattan and the Bronx.

BUFFALO, N. Y.—The following, we have been officially informed, are the lowest bidders on various materials, for which bids were received June 19: Valves, the Rensselaer Mfg. Co.; hydrants, Howard Iron Works; corporation cocks, A. P. Smith Mfg. Co.; pipe, U. S. Cast Iron Pipe Co. Henry L. Lyon is Deputy Water Comr.

PHILADELPHIA, PA.—We are officially advised that the following bids were received June 20 by Thomas L. Hicks, Dir. Dept. Pub. Wks., for constructing pumping station for the Torresdale filter system; (a) with slate roof, (b) with Keasby & Matteson shingles: David Peoples, Betz Bldg., Philadelphia, (a) $74,000, (b) $77,700; Lynch Bros., 614 Lippincott Bldg., Philadelphia, (a) $79,543, (b) $83,243; Abel Bottoms & Son, 41 South 15th St., (a) $83,440, (b) $88,200. Cassius E. Gillette is Ch. Engr. Bureau of Filtration.

Cassius E. Gillette will advertise for bids in a few days for the contract to supply and lay about $600,000 worth of pipe to meet the work provided in Contract 28, which was annulled. The work comprises the laying of a water main in Third St., between Girard Ave. and Market St., to distribute filtered water from the Torresdale plant. There also will be embraced in the work the laying of three 48-in. mains in Tacony St., from Church to Torresdale Aves., and thence in Torresdale Ave., from Tacony St. to Kensington Ave. Bids will also be asked at about the same time for the work of cleaning the George's Hill reservoir.

WASHINGTON, D. C.—Bids are asked until noon, July 21, by the District Commissioners for furnishing water meters. (Advertised, Engineering News.)

MURPHY, N. C.—Town will install waterworks, supply to be obtained from mountain stream seven miles distant by means of pipe line. J. Q. Barker is Consult. Engr., Andrews, N. C.

DALLAS, GA.—As soon as plans are completed bids will be asked for 1¾ miles of 6 to 8-in. mains, 80,000-gallon water tower, two compound 500,000-gallon pumps, suction basin power-house. Arthur Pew, of Atlanta, is Engr.

COLUMBUS, MISS.—The city has voted to issue $60,000 of bonds for extending water and sewer mains.

BUNKIE, LA.—A system of water-works will be established here, at a probable cost of $18,000.

NEWARK, OHIO.—The city will construct a concrete reservoir at Horn's Hill, of about 4,500,000 gallons capacity.

DAYTON, OHIO.—Bids are asked until noon, July 17, by the Board of Public Service, T. M. Pexton, Pres., for furnishing and laying about 33,225 ft. of from 6 to 20-in. c.-i. water pipe, with valves, specials, etc. Harry J. McDargh is Maintenance Engr., Dept. of Water. (Advertised, Engineering News.)

BELLAIRE, MICH.—The citizens of the village have voted in favor of borrowing $15,800 for constructing water-works.

CASEY, ILL.—Bids are asked until July 9 by the City Council, B. B. Sturdevant, Clk., for excavating, tank and tower, in connection with the proposed water-works system at this city. We have been officially informed that the bids opened June 25 for the same work were rejected on account of their being too high.

MINNEAPOLIS, MINN.—A water filtration plant will be constructed at a cost of $50,000. The proposition to construct a $1,000,000 plant will be submitted to a vote of the people, the $50,000 to be used pending a decision.

ST. PAUL, MINN.—The lowest bids on 300,000-gallon tank and feed water boiler, recently received by Capt. A. W. Kimball, Constr. Q. M., for additional pumping facilities at Fort Snelling, were those of the Chicago Bridge & Iron Works, $17,500, and Robinson & Cary, St. Paul, $5,500, respectively.

EYOTA, MINN.—Bids are asked until 4 p. m., July 16, by the Village of Eyota, for installing complete system of water-works. Bids are asked on both the compressed air and the gravity plans. W. J. Moulster is Recdr.; Claussen, Burch & Pittsburg, St. Paul, are Engrs.

ROCK RIVER, WYO.—We are officially informed that plans are being prepared for the Bosler Irrigation Project at Rock River, and bids for a portion of the work will be asked for in July. Total estimated cost of project, $175,000. Frank C. Bosler is Pres.

BILLINGS, MONT.—Bids are asked until 2 p. m., Aug. 7, at the office of U. S. Reclamation Service, for constructing a pumping plant, involving about 15,000 cu. yds. earth excavation, 600 cu. yds. concrete, building 2,000 ft. concrete pipe and furnishing and installing a water power pumping plant. The plant will be located near Ballantine Station, 23 miles east of Billings. E. A. Hitchcock is Secy. Plans, specifications and bidding sheet are on file at office of Engineering News, New York.

TULSA, IND. T.—A bond issue of $300,000 was recently voted by the directors of the Tulsa Water, Light & Power Co. for rebuilding the local water system.

FORT WORTH, TEX.—The Gulf Coast Irrigation Co. has been chartered with a capital of $500,000. B. M. Harrison and N. H. Lassiter, of Fort Worth, and N. M. Bell, of Chicago, Ill., are interested.

BROWNSVILLE, TEX.—F. J. SARGENT, of Houston, has been awarded the contract to install the system of water-works at Fort Brown, Brownsville.

HOEHNE, COLO.—The town of Hoehne will install a water-works system from which will also be supplied the Atchison, Topeka & Santa Fe Ry. Co.

BERTHOUD, COLO.—The JACOBSON BADE CO., of Portland, Ore., has been awarded the contract for construction of the water-works system for this town.

WALLOWA, ORE.—The contract for installing water system at Wallowa has been awarded to GOULD & MEARS, of Hood River, at $10,028. The water will be brought from Bear Creek, about 2¼ miles distant, from which there will be a fall of 200 ft.

DUFUR, ORE.—Bids are asked until 1 p. m., July 13, by the Board of Water Commissioners, for furnishing a quantity of from 6 to 12-in. pipe. Milton O'Brien is Secy. Bd. Water Comrs.

SEATTLE, WASH.—We are officially advised that Seattle will require 12,850 ft. 12-in. pipe, 3,841 ft. 16-in. pipe, 48 8-in. hydrants, 8,000 ft. piling, 112,000 ft. lumber, 24 12-in. valves and 6 6-in. valves. It is estimated that the work will cost $63,500. R. H. Thomson is City Engr.

SACRAMENTO, CAL.—We have been officially informed that preliminary surveys have been made for foundations of reservoir and dam. M. A. Nurse is Engr. to Com. Pub. Wks.

BURLINGAME, CAL.—E. W. McLELLAN has been awarded the contract for laying sewer and water pipes in Easton Addition, No. 2, Burlingame, at a cost of $35,000.

MONTPELIER, IDAHO. — GILMARTIN, ZITSMAN & CRAVEN have secured the contract for installing water-works system at Montpelier, to cost $25,000.

REXBURG, IDAHO.—The contract for constructing water-works has been awarded the WHEELWRIGHT CONSTRUCTION CO., Ogden, Utah, at an estimated cost of $25,000.

MOUNTAIN HOME, IDAHO.—We are officially advised that O. E. RENWELL, of Mountain Home, has the contract to construct about 3,500 lin. ft. of wooden flume. Carl Mauhmer is Ch. Engr. Great Western Beet Sugar Co., owners of the system.

GLACE BAY, N. S.—The level of Sand Lake, one source of supply of the town's water system, is to be raised 2 ft. by building a dam at the outlet.

MONT JOLI, QUE.—The Mont Joli Water Co. proposes installing water-works and sewer systems in the village, to cost $50,000.

HAMILTON, ONT.—The Fire and Water Committee has decided to improve the water-works system, costing $7,000.

MOOSE JAW, SASK.—A gravity system of water supply for Moose Jaw is now assured. The pipe line will be seven miles long, with a fall of 140 ft.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

FRAMINGHAM, MASS.—Specifications and bidding sheet for sewage pumping machinery, as advertised, are on file at office of Engineering News, New York. Bids are asked until July 16.

BRIDGEPORT, CONN.—Director of Public Works has awarded the contract for construction of the Noble Ave. sewer to the B. D. PIERCE, JR., CO., at $17,821.

NAUGATUCK, CONN.—Bids are asked until 8 p. m., July 10, by the Board of Warden and Burgesses, for laying about 2,400 ft. of sanitary sewer, consisting of from 6 to 18-in. tile pipe. (Advertised Engineering News.)

NEW YORK, N. Y.—Bids are asked until 11 a. m., July 6, by Bird S. Coler, Pres. Boro. of Brooklyn, for constructing sewers in 85th, 59th and 42d Sts., Brooklyn, and constructing sewer basins at junction of Jerome St. and Belmont Ave.

Bids are asked until 11 a. m., July 18, by Bird S. Coler, Pres. Boro. of Brooklyn, for constructing sewers in 85th St.

Bids are asked until 3 p. m., July 12, by the Department of Parks, Moses Herrman, Pres., for constructing a complete pipe sewer on Ocean Parkway, from Ave. U to Kings Highway, Boro. of Brooklyn.

Bids are asked until 11 a. m., July 18, by Bird S. Coler, Pres. Boro. of Brooklyn, for constructing sewers in various streets in Brooklyn.

BUFFALO, N. Y.—The Common Council of the City of Buffalo has given notice of intention to construct sewers in Ellicott, Michigan, Merrimac and Mildred Sts., Englewood and Deveraux Aves., and Broadway. Charles M. Morse is Deputy Engr. Comr.

WATERFORD, N. Y.—Commissioners have awarded the contract for the construction of the Saratoga Ave. sewer to DANIEL J. CONROY, of Oneida.

ROSECOE, PA.—Bids are asked until July 9, by J. S. Cowan, Boro. Clk., for constructing 3,000 lin. ft. 24-in. sewer. B. S. Smallwood, Charleroi, Pa., is Boro. Engr.

MONTGOMERY, ALA.—Bids are asked until July 5, for laying four sections of sanitary sewers. R. S. Williams is City Treas.

COLUMBUS, MISS.—See under Water-Works and Irrigation.

CHICAGO, OHIO.—Bids are asked until 7.30 p. m., July 17, by the Village Council of Chicago Junction, Huron County, for constructing about 1,250 ft. of 36-in. storm sewer at Chicago Junction. W. G. Gullung is Village Clk. (Advertised Engineering News.)

PAINSVILLE, OHIO.—Bids are asked until noon, July 16, by the Board of Public Service for construction of a storm sewer in South St. There is to be 330 ft. 4- and 870 ft. 36-in. brick sewer, brick sewer, 33-in. pipe sewer. H. P. Cumings is Engr.

CLEVELAND, OHIO.—Bids asked until July 12 for constructing intercepting sewer. A. R. Callow is Sec. of Pub. Service.

CAMBRIDGE, OHIO.—Bids asked until noon, July 12, by the Board of Public Service, for installing sanitary sewer system in Cambridge. Sarah Raine, Secy. Bd. Pub. Service; O. M. Hoge is Engr.

YOUNGSTOWN, OHIO.—Bids asked until noon, July 13, for constructing sewer in Hine St., from Himrod Ave. to St.

DAYTON, OHIO.—Among contracts let, at Dayton, recently, by Board of Public Service, were the following: For sewer in South Broadway, PAUL & KERSHNER, $8,640; North Broadway, PAUL & KERSHNER, $15,960; Home Ave., M. O'HERRON, $3,176.

EVANSVILLE, IND.—Bids asked until 2 p. m., July 7, for installing 1 ft. 12-in. sewer and a short line of 10-in. sewer. J. D. Saunders is Des. and City Engr. W. F. Wunderlick is City Clk.

DIXON, ILL.—Bids are asked until 2 p. m. July 16, by the Board of Local Improvements, for constructing a combined sewer system on Galena Ave. and Fifth St.

ELGIN, ILL.—Bids are asked until 2 p. m. July 13, by the Board of Local Improvements, C. E. Botsford, Pres., for a complete sanitary sewer system, comprising about 182,000 lin. ft. of vitrified sewer pipe and concrete sewer from 6 to 30 ins. in diameter, and 500 manholes. Henry Dakins is City Engr. (Advertised Engineering News.)

PIPESTONE, MINN.—Bids are asked until 8 p. m., July 13, by the Common Council, for building various sewers in Pipestone. L. W. Funk is City Recdr.

McPHERSON, KANS.—Bids are asked until July 20, for constructing about 35,000 ft. of from 6 to 12-in. sewer. H. A. Rowland is City Engr.

ARMOUR, S. DAK.—The City Council of Armour has decided to build a sewer system throughout the city. A grade will be also established at the same time of running grade for the sewer, for the construction of cement sidewalks throughout the city. The sewer and street improvements will amount to about $30,000.

DALLAS, TEX.—Bids are asked until July 10, for constructing a vitrified pipe storm sewer of sizes from 12 to 36-in. inclusive, and reinforced concrete storm sewer of sizes from 36 in. to 5 ft., on certain streets. E. L. Dalton is City Engr.

SEATTLE, WASH.—We are officially advised that T. RYAN, of Seattle, has secured contract for constructing the North Capitol Hill sub-sewer, at $54,788. The same bidder bid $45,986 for wood bottom sewer. Other bidders for (a) wood bottom sewer, (b) brick sewer, were: Sandfield & Gifford, Seattle, (a) $53,083, (b) $61,283; Puget Sound Bridge & Dredging Co., Seattle, (a) $50,783, (b) $58,415; George W. Walker, Seattle, (a) $52,504, (b) $61,144.

PORTE MADERA, CAL.—We are officially advised that contract for constructing sewers is District No. 2, at Corte Madera, was awarded on June 19 to N. P. GLANN, at $20,000. George M. Dodge, San Rafael, is Des. Engr.

GILROY, CAL.—Bids are asked until 8 p. m., July 9, for installing a complete sewer system, with septic tanks, in Gilroy. George T. Dunlap is Mayor; E. F. Rogers is City Clk.

BURLINGAME, CAL.—E. W. McLELLAN has contract for laying sewer and water pipes Easton Addition No. 2, Burlingame, at a cost of $35,000.

OGDEN, UTAH.—J. J. Dunnegan, Shenandoah, Iowa, bid $90,591; and James Kennedy, Fargo, N. Dak., $97,550, for construction of sewers, for which bids were received at Ogden June 23. Both bids were rejected, being too high, and new bids will be asked for. A. F. Parker is City Engr.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

CLAREMONT, N. H.—Bids are asked until 5 p. m., July 14, by A. W. Dean, State Engr., Concord, for constructing a macadam or gravel road in Claremont, to cost about $6,200.

CONCORD, N. H.—Bids are asked until 5 p. m., July 11, by A. W. Dean, State Engr., for grading and surfacing with gravel various roads throughout the state.

OXFORD, MASS.—On June 26 the Massachusetts Highway Commission awarded to the WORCESTER BROKEN STONE CO., Worcester, contract for macadamizing a section of road in Oxford, at $4,191, to AMOS D. BRIDGE, Hazardville, Conn., a section in East Longmeadow, at $3,877, and to M. L. CAMARCO, Lee, Mass., a section in Becket, at $3,936.

EAST HADDAM, CONN.—Bids are asked until July 7 by the Board of Selectmen, H. W. Gates, Chn., for grading and macadamizing three sections of road.

COLUMBIA, CONN.—Bids are asked until 8 p. m., July 6, by the Board of Selectmen for grading three sections and putting gravel-telford on one section of road in the town of Columbia.

CROMWELL, CONN.—James H. Macdonald, Highway Comr., has awarded the contract for the construction of a gravel road with a telford base in the town of Cromwell, to O. T. BENEDICT, of Pittsfield, Mass., for $1.20 per lin. ft., the entire length of the road to be improved being 4,375 ft. The amount of the contract is $5,250.

GREEN ISLAND (Troy post office), N. Y.—Bids are asked until 8 p. m., July 18, by the Public Improvement Commission, William H. Jarvis, Secy., for paving about 17,000 sq. yds. with brick and for about 7,800 lin. ft. curbing. (Advertised, Engineering News.)

ALBANY, N. Y.—Bids were received on June 28 by Henry A. Van Alstyne, State Engineer, for improving the public state highways in road number; (2) name of road; (3) which county located. The bids received on the 28th were as follows: (1) 157; (2) Albany-Central Valley; (3) Orange; County Road Cons. Co., $18,368. (1) 209; (2) Reed's Corners; (3) Ontario; John Jeffers, Buffalo, $19,200. (1) 208; (2) Cortland; Homer; (3) Cortland; Mott & Kemper, $7,900. (1) 227; (2) Brunswick Turnpike; (3) Rensselaer; Thomas H. Karr, $27,000; Corliss Con. Co., Troy, $25,748. (1) 228; (2) Kingston-High Falls; (3) Ulster; Clinton Beckworth, Herkimer, Walker, Mariner's Harbor, $41,000. (1) Wagonen, Rondout, $45,000; Rice, Rondout, $44,700; J. E. McNamee & Staten Island, $40,800; U. G. Constable, Albany, $43,749; Casey & Murray, Stockwell, $51,000; Cox Bros., Ellenville, Rochester, Orange County Road Cons. Co., New $65,000. (1) 229; (2) Kingston-High York, $58,086. (1) 230; (2) Falls; (3) Ulster; J. F. Hillman & Co., Kingston, $58,200; C. Beckworth, Herkimer, $59,000; J. F. Finch, Glens Falls, $71,400; McNamee & Rice, $55,900; Casey & Murray, $74,500; Orange County Road Cons. Co., $73,780; DeGraff & Hoggaboom, Bloomington, $61,000; J. Walker, $63,444; Cox Bros., $79,975; J. D. Evans, Brooklyn, $27,000; Jas. Herring, Philadelphia, $78,485. (1) 230; (2) Kingston-Ellenville, Sec. 1; (3) Ulster; S. B. Van Wagonen, $80,000; James Herring, $87,190; J. T. Finch, $81,000; C. Beckworth, $72,000; Casey & Murray, $82,000; DeGraff & Hoggaboom, $67,900; Orange County Road Cons. Co., $79,972; McNamee & Rice, $65,000; Joseph Walker, $63,439; Cox Bros., $84,975. (1) 231; (2) Post Road; (3) Ulster; Town Board, Lloyd, $52,250; Orange County Road Cons. Co., $64,072; McNamee & Rice, $53,000; Cox Bros., $73,000; S. B. Van Wagonen, $52,600; C. Beckworth, $57,000; J. Herring, $79,832. (1) 232; (2) Old State; (3) Essex; Buckley Cons. Co., Plattsburg, $18,785; C. Beckworth, $18,000; J. Walker, $21,000. (1) 233; (2) Frankfort-East Schuyler; (3) Herkimer; A. Eaton, Franklin, $16,262; C. R. Lewis, Ilion, $13,595; C. Beckworth, $12,700. (1) 234; (2) Adams-Henderson, Sec. 2; (3) Jefferson; C. C. Burns, Watertown, $45,176. (1) 235; (2) Watertown-Sacketts Harbor-Henderson, Sec. 2; (3) Jefferson; C. C. Burns, $13,962; W. J. Semper, Watertown, $13,239. (1) 236; (2) Redwood-Alexandria Bay, Sec. 2; (3) Jefferson; Reed, Fitzgibbons & Keeler, $29,700. (1) 237; (2) Sacketts Harbor; (3) Jefferson; Brennan & O'Brien, Watertown, $10,887; W. J. Semper, $11,081; C. C. Burns, $11,630. (1) 238; (2) Henderson Harbor; (3) Jefferson; Brennan & O'Brien, $28,000; C. C. Burns, $27,858. (1) 240; (2) Waterford-Cohoes; (3) Saratoga; Hudson Valley Co., Albany, $22,749; Mulderry Bros., Albany, $21,784; J. W. Flynn, Waterford, $21,138. (1) 241; (2) Saratoga-Ballston; (3) Saratoga; Buckley Cons. Co., $30,500; Casey & Murray, $34,900; C. Beckworth, $35,000; M. Fitzgerald, Hoosac Falls, $38,433; M. Murray, Troy, $30,000; Schenectady Contracting Co., $30,969; J. E. Martin, Poughkeepsie, $40,900; Saratoga Trap Rock Co., $35,092; U. G. Stockwell, $32,749; J. Walker, $31,500. (1) 242; (2) Saratoga-Glens Falls, Sec. 2; (3) Saratoga; J. T. Finch, $9,749; C. Beckworth, $8,400; Saratoga Trap Rock Co., $8,513. (1) 243; (2) Mechanicville-Stillwater; (3) Saratoga; C. Beckworth, $18,000; M. Fitzgerald, $19,799; U. G. Stockwell, $18,749. (1) 244; (2) Saratoga-Schuylerville; (3) Saratoga; C. Beckworth, $53,000; J. T. Finch, $62,000; J. Walker, $63,000; M. Murray, $53,500; Buckley Cons. Co., $53,200. (1) 246; (2) Gloversville-Meco-Phelps; (3) Fulton; Buckley Cons. Co., $18,700; Alonzo Schupp, Albany, $18,867; Robert Shafer, Albany, $17,203. (1) 247; (2) Johnstown-Kecks Centre; (3) Fulton; C. Beckworth, $40,000. (1) 248; (2) Gloversville-Broadalbin; (3) Fulton; A. Schaupp, $19,870; Buckley Cons. Co., $19,300. (1) 249; (2) Old Plank; (3) Fulton; Joseph Walker, $26,000; Buckley Cons. Co., $24,800. (1) 250; (2) Utica-Oneida-Castel, Sec. 1; (3) Oneida; Casey & Murray, $133,050. (1) 251; (2) Griswold St.; (3) Niagara; Robert Robinson, Akron, $18,150; Mosier & Summers, Buffalo, $17,500. (1) 252; (2) Clifton, Sec. 2; (3) Monroe; J. F. Finch, $23,000; H. C. Schroeder, Rochester, $20,811; Chambers & Grady, Rochester, $20,923; F. A. Brotsch, Rochester, $18,000. (1) 253; (2) Lyell; (3) Monroe; J. F. Finch, $23,000; Chambers & Grady, $19,573; F. A. Brotsch, $18,000. (1) 254; (2) Chili, Sec. 1; (3) Monroe; Chambers & Grady, $27,264; J. F. Finch, $28,000; F. A. Brotsch, $19,400. (1) 255; (2) Chili, Sec. 2; (3) Monroe; J. F. Finch, $27,000; Chambers & Grady, $25,717; F. A. Brotsch, $16,070. (1) 256; (2) Little Ridge, Sec. 3; (3) Monroe; F. W. Kinckenberg, Buffalo, $24,300; Mosier & Summers, $25,400; Greece Cons. Co., Rochester, $23,600; Chambers & Grady, $25,174; F. A. Brotsch, $24,000. (1) 257; (2) Little Ridge, Sec. 4; (3) Monroe; Mosier & Summers, $24,900; F. W. Kinckerberg, $24,300; F. A. Brotsch, $23,000; Chambers & Grady, $26,305. (1) 258; (2) Plattsburg-Keeseville, Sec. 3; (3) Clinton; C. Beckworth, $36,000; Buckley Cons. Co., $36,575. (1) 259; (2) Plattsburg-Mooers, Sec. 2; (3) Clinton; Buckley Cons. Co., $55,894; C. Beckworth, $60,000; Casey & Murray, $58,900. (1) 260; (2) Plattsburg-Mooers, Sec. 3; (3) Clinton; C. Beckworth, $34,000; Keith & Howard, Mooers Forks, $42,606; Buckley Cons. Co., $33,000. (1) 261; (2) Peekskill-Salem, Sec. 1; (3) Westchester; Canney & Cornell, $60,859; J. Herring, $43,233. (1) 262; (2) Peekskill-Salem, Sec. 2; (3) Westchester; Canney & Cornell, Croton-on-Hudson, $44,714; Ganung & Hoyt, Katonah, $53,427; J. Herring, $33,711. (1) 263; (2) Aurora-Buffalo, Sec. 2; (3) Erie; Mosier & Summers, $50,000; Erie County Bd. Suprs., $41,960; Gantz Wilson Cons. Co., Buffalo, $39,- (1) 264; (2) Aurora-Buffalo, Sec. 3; (3) Erie; Gantz Wilson Cons. Co., $6,960; Erie County Board Supervisors, $6,500. (1) 265; (2) Deposit; (3) Broome; County of Broome, $26,475. (1) 266; (2) Tunnel; (3) Broome; County of Broome, $13,319. (1) 267; (2) Castle Creek; (3) Broome; County of Broome, $54,663. (1) 268; (2) Bridge Road; (3) Broome; County of Broome, $9,054. (1) 269; (2) Hilton; (3) Monroe; Mosier & Summers, $27,500; Chambers & Grady, $30,890; F. A. Brotsch, $26,000. (1) 270; (2) Birch Hill; (3) Nassau; Andrews Bros., Mineola, $10,173; J. E. Martin, $15,450; Russell Contract Co., New York, $13,000. (1) 272; (2) Orchard Park, Sec. 5; (3) Erie; Briggs Bros. & Freeman, Orchard Park, $12,100; John Johnson, Buffalo, $12,000; Erie County Board Supervisors, $12,300. (1) 274; (2) Gulf Bridge; (3) Broome; D. V. Ashley, Binghamton, $13,250; County of Broome, $14,406. (1) 275; (2) Union-Maine; (3) Broome; County of Broome, $30,604. (1) 276; (2) Barnard's Crossing, Secs. 1-2; (3) Monroe; Greece Cons. Co., $34,900; Chambers & Grady, $37,514; F. A. Brotsch, $35,500; F. W. Hamilton, Rochester, $37,430. (1) 277; (2) Lake Pleasant-Speculator; (3) Hamilton; Robert Shafer, $24,443; C. Beckworth, $26,000. (1) 284; (2) Averill Park-Crooked Lake; (3) Rensselaer; Buckley Cons. Co., $33,000; T. H. Karr, $32,740; M. Murray, $27,990. (1) 285; (2) Nassau-Brainard; (3) Rensselaer; J. Herring, $32,655; T. H. Karr, $31,500. (1) 287; (2) Rensselaer-Best; (3) Rensselaer; T. H. Kerr, $47,500. (1) 288; (2) Troy-Sand Lake, Sec. 2; (3) Rensselaer; Charles Holsert, Poestenkill, $15,495; T. H. Karr, $17,300; John H. Gordon, Albany, $14,500.

Bids received on June 29 were as follows: (1) 289; (2) Crescent Ave.; (3) Suffolk; E. M. & W. Ferguson, Fishers Island, $18,750. (1) 290; (2) South Salina St.; (3) Onondaga; Nichols Marnell, Syracuse, $11,085; W. J. Dwyer, Syracuse, $11,324. (1) 291; (2) Cemetery Road; (3) Onondaga; Nichols Marnell, $8,400. (1) 292; (2) West Lake, Sec. 2; (3) Onondaga; Mott & Kemper, Utica, $10,400; C. H. Quereau, Baldwinsville, $9,350. (1) 293; (2) East Lake, Sec. 2; (3) Onondaga; C. H. Quereau, $8,750. (1) 295; (2) Mohawk River-Floyd; (3) Oneida; Casey & Murray, Rochester, $26,750. (1) 296; (2) Mohawk River-Marcy; (3) Oneida; Peter Williams, Whitesboro, $44,404; Casey & Murray, $43,250. (1) 297; (2) Mohawk River-Deerfield; (3) Oneida; Peter Williams, $33,258; Casey & Murray, $31,450. (1) 298; (2) Amsterdam-Hagaman; (3) Montgomery; D. S. Snell & Co., Canajoharie, $15,938; E. R. Steel, Herkimer, $15,000; J. Walker, $16,300; A. Schaupp, Albany, $16,790; Buckley Cons. Co., Plattsburgh, $16,800. (1) 299; (2) Saulwaters Corners-Young Corners; (3) Montgomery; J. Walker, $27,000. (1) 300; (2) De Graff Corners-Sherburne Corners; (3) Montgomery; J. Walker, $10,000. (1) 301; (2) Minaville-Scotts Bush; (3) Montgomery; D. Moynehan, Utica, $15,000. (1) 302; (2) Fonda-Berryville; (3) Montgomery; Hudson Valley Cons. & Bldg. Co., Albany, $14,949; Snell & Co., Canajoharie, $14,320; Buckley Cons. Co., $15,000; Joseph Walker, $17,200. (1) 303; (2) Fonda-Tribes Hill; (3) Montgomery; Joseph Walker, $21,000; U. G. Stockwell, Albany, $16,749; D. I. Snell & Co., $17,549; Buckley Cons. Co., $18,392. (1) 305; (2) Kingston-Ellenville, Sec. 2; (3) Ulster; DeGraff & Hoggaboom, Bloomington, $61,600; Cox Bros., Ellenville, $66,300; Joseph Walker, $62,000; Town of Rochester, $56,500; Orange County Road Cons. Co., $64,072; Casey & Murray, $58,000; J. Herring, Philadelphia, $77,730; J. T. Finch, Glens Falls, $69,900; E. R. Steel, Herkimer, $63,000. (1) 314; (2) Gilbertsville-Mt. Upton; (3) Otsego; S. B. Van Wagonen, Rondout, $37,000; Henry Edict, Jr., Herkimer, $40,000; Joseph Walker, $38,500; J. T. Finch, $37,500. (1) 315; (2) Morris-Gilbertsville, Sec. 1; (3) Otsego; Joseph Walker, $29,000; J. T. Finch, $30,000; S. B. Van Wagonen, $28,800; Bartley Manion, $26,000; Elmer Welch and Homer Underwood Sawyer, Edmeston, $28,848. (1) 316; (2) Colliersville-Emmons; (3) Otsego; Siver & Gould, Sidney, $10,716; J. T. Finch, $13,600; J. Walker, $12,000. (1) 317; (2) Shadyside-Otsego; (3) Otsego; J. Walker, $24,000; Siver & Gould, $19,968; J. T. Finch, $26,100. (1) 318; (2) Colliersville-Milford Centre; (3) Otsego; S. B. Van Wagonen, $16,500; Siver & Gould, $17,460; Bartley Manion, Herkimer, $18,000; J. Walker, $19,000; J. T. Finch, $21,000. (1) 319; (2) Schenevus-Maryland; (3) Otsego; S. B. Van Wagonen, $34,400; Bartley Manion, $39,000; J. T. Finch, $41,200; J. Walker, $37,500. (1) 331; (2) Peekskill-Salem Centre, Sec. 3; (3) Westchester; Canney & Cornell, Groton, $43,825; J. Herring, $44,390; Orange County Road Cons. Co., $42,000. (1) 332; (2) Peekskill-Salem Centre, Sec. 4; (3) Westchester; Canney & Cornell, $39,888; J. Herring, $44,268; Orange County Road Cons. Co., $34,690. (1) 333; (2) Geneva-Canandaigua, Sec. 3; (3) Ontario; Henry C. Schroeder, Rochester, $8,242. (1) 334; (2) Lyons-Geneva; (3) Ontario; H. C. Schroeder, $12,466. (1) 335; (2) Victor-Mendon, Sec. 1; (3) Ontario; Chambers & Grady, Rochester, $37,500; John Johnson, Buffalo, $38,100; J. T. Finch, $43,900; Mosier & Summers, $36,400; F. W. Hamilton, Rochester, $41,660. (1) 340; (2) Saratoga-Corinth; (3) Saratoga; Joseph Walker, $52,000; D. Moynehan, $49,500; Buckley Cons. Co., $48,887; U. G. Stockwell, $49,449; M. Fitzgerald, Hoosac Falls, $55,892; Saratoga Trap Rock Co., $55,215; Casey & Murray, $58,250; J. T. Finch, $59,998. (1) 341; (2) Stockport-Hudson; (3) Columbia; Stackpole & Shute, Hudson, $31,960; A. R. Ostram, Stuyvesant, $27,476; John W. Polcaro, Pittsfield, Mass., $23,100. (1) 343; (2) Pawling-Patterson; (3) Dutchess; General Cons. Co., Bridgeport, Conn., $24,000; (1) 344; (2) Millerton-Northeast Corner; (3) Dutchess; General Cons. Co., $16,378; S. B. Van Wagonen, $16,000; Lane Cons. Co., Meriden, Conn., $17,324. (1) 348; (2) Collimer; (3) Onondaga; W. J. Dwyer, Syracuse, $18,000; Mott & Kemper, Utica, $20,400. (1) 355; (2) Wellsburg; (3) Chemung; A. P. Bovier & Rollins, Elmira, $53,985. (1) 356; (2) Erin-Horseheads; (3) Chemung; J. T. Finch, $104,000; A. P. Bovier & Rollins, $93,012; Casey & Murray, $93,200. (1) 357; (2) Grand Central Ave.; (3) Chemung; A. P. Bovier & Rollins, $15,995; Costell & Nagle, Elmira, $16,900. (1) 359; (2) Frankfort-Utica, Sec. 2; (3) Herkimer; John Weber & Sons, New York, $16,450; C. R. Lewis, Ilion, $14,600; Henry Edict, Jr., $15,000; Town of Frankfort, $16,900. (1) 360; (2) Poland-Cold Brook; (3) Herkimer; A. Schaupp, Albany, $3,740; D. Moynehan, $3,800. (1) 361; (2) Johnstown-Tribes Hill; (3) Fulton; U. G. Stockwell, $20,149; Henry Edict, Jr., $23,000; Robert Shafer, Albany, $20,702. (1) 365; (2) Guilderland Centre-Guilderland; (3) Albany; A. Schaupp, $14,940; Hudson Valley Cons., $15,449; James H. Malcomb, Albany, $13,573; Joseph Walker, $15,500; Robert Shafer, $14,616. (1) 367; (2) Glenmont-Feura Bush; (3) Albany; Joseph Walker, $57,750; J. T. Finch, $62,900; U. G. Stockwell, $53,749; Buckley Cons. Co., $48,460; Robert Shafer, $54,782. (1) 369; (2) Augusta Road-Oriskany Falls; (3) Oneida; A. Schaupp, $24,900; Mott & Kemper, $26,800. (1) 371; (2) Clinton St., Sec. 1; (3) Erie; J. T. Finch, $60,000; Mosier & Summers, $51,500; Gantz Wilson Cons. Co., $45,925; Town of West Seneca, $52,200; Board Supervisors, Buffalo, $53,000. (1) 372; (2) Clinton St., Sec. 2; (3) Erie; J. T. Finch, $64,100; Erie County Board Supervisors, $58,000; Gantz Wilson Cons. Co., $52,995. (1) 373; (2) Goodrich Road; (3) Erie; Mosier & Summers, $72,400; William E. Baldwin, Buffalo, $69,197; Board Supervisors, Buffalo, $78,000; Good Roads Cons. Co., $80,000; F. W. Knickerberg, Buffalo, $73,400; J. T. Finch, $87,740. (1) 374; (2) Maine; (3) Broome; County of Broome, $32,903. (1) 375; (2) Barker; (3) Broome; County of Broome, $6,291. (1) 377; (2) Cincinnattus; (3) Cortland; C. H. Quereau, $3,650. (1) 378; (2) McGrawville; (3) Cortland; Casey & Murray, $28,500; D. V. Ashley, $26,896; Mott & Kemper, $27,600; John Weber & Sons, New York, $26,661. (1) 380; (2) State Road-Homer; (3) Cortland; Mott & Kemper, $35,600. (1) 381; (2) State Road-Scott; (3) Cortland; Mott & Kemper, $26,000. (1) 383; (2) Owasco; (3) Cayuga; J. C. Dayton, Auburn, $18,545; Brayer Bros., Auburn, $18,000. (1) 384; (2) Fleming; (3) Cayuga; Brayer Bros., $24,015; J. C. Dayton, $23,998. (1) 364; (2) Preston Hollow-Potter Hollow; (3) Albany; J. H. Maclomb, Albany, $24,770; J. Walker, Albany, $26,000; Robert Shafer, Albany, $24,036. (1) 386; (2) New Scotland-Wolf Hill; (3) Albany; Casey & Murray, Rochester, $79,000; Robert Shafer, $59,572; J. Walker, $58,500.

Bids received on June 30 were as follows: (1) 386; (2) Five Corners-Kuckville, Sec. 1; (3) Orleans; Chambers & Grady, Rochester, $21,480. (1) 388; (2) Kendalls Corners; (3) Orleans; Chambers & Grady, $22,700. (1) 417; (2) Glens Falls-Lake George; (3) Warren; J. T. Finch, Glens Falls, $72,406; Saratoga Trap Rock Co., $76,200; Casey & Murray, $65,000. (1) 418; (2) Lake George-Bolton Landing; (3) Warren; Casey & Murray, $82,500; J. T. Finch, $89,894. (1) 420; (2) Vestal; (3) Broome; D. V. Ashley, Binghamton, $34,000; County of Broome, $35,287. (1) 423; (2) Watertown-Theresa, Sec. 3; (3) Jefferson; Reed & Fitzgibbons, Alexandria Bay, $31,590. (1) 425; (2) Adams-Watertown, Sec. 2; (3) Jefferson; Wm. J. Semper, Brownville, $25,261. (1) 427; (2) Watertown-Carthage, Sec. 2; (3) Jefferson; Brennan & O'Brien, Watertown, $37,560; C. C. Burns, Watertown, $37,256. (1) 429; (2) Thompson; (3) Onondaga; W. J. Dwyer, Syracuse, $22,700; J. C. Dayton, Auburn, $23,497. (1) 430; (2) Jordan Valley, Sec. 1; (3) Onondaga; J. C. Dayton, $13,797. (1) 431; (2) Skaneateles-Spafford; (3) Onondaga; J. C. Dayton, $25,997. (1) 434; (2) Anandale-Bay View; (3) Nassau; Isaac Harris & Co., Brooklyn, $14,000; Peace Bros., Flushing, $12,000; J. E. Martin, Poughkeepsie, $12,794; Andrews Bros., Mineola, $11,626; Russell Contract Co., New York, $13,000. (1) 446; (2) Cortland-Groton; (3) Cortland; D. V. Ashley, $9,782. (1) 452; (2) Cicero-South Bay; (3) Onondaga; Mott & Kemper, Utica, $21,500; W. J. Dwyer, $28,938. (1) 453; (2) Poughkeepsie-Hyde Park; (3) Dutchess; Russell Con. Co., $52,000; Orange County Road Cons. Co., $47,000; Casey & Murray, $48,000; J. E. Martin, $43,350; McNamee & Rice, Rondout, $38,000; J. Walker, $39,000. (1) 456; (2) Little Falls-East Creek; (3) Herkimer; U. G. Stockwell, Albany, $48,949; Chambers & Grady, $53,000; J. Walker, $52,000; D. Moynehan, Utica, $52,000; Casey & Murray, $55,500. (1) 457; (2) Little Falls-Herkimer; (3) Herkimer; J. Walker, $58,000; Chambers & Grady, $61,000; B. Manion, Herkimer, $57,500; U. G. Stockwell, $56,449; S. A. Seymour, Herkimer, $55,950. (1) 458; (2) Herkimer-Frankfort; (3) Herkimer; Joseph Walker, $36,000; Chambers & Grady, $34,500; J. H. Nelson & Co., Herkimer, $31,307; C. Beckworth, Herkimer, $35,000; J. Weber & Son, New York, $32,250. (1) 459; (2) East Schuyler-Deerfield; (3) Herkimer; J. Weber & Sons, New York, $56,000; Henry Edict, Jr., Herkimer, $56,000. (1) 460; (2) Herkimer-Middleville; (3) Herkimer; J. H. Nelson & Co., Herkimer, $62,326; J. Walker, $66,500; Henry Edict, Jr., $65,000. (1) 482; (2) Dansville-Mt. Morris, Sec. 3; (3) Livingston; Wm. McCarthy & Fred. C. Sisson, Mt. Morris, $30,675. (1) 483; (2) Catskill Turnpike, Sec. 3; (3) Tompkins; Chambers & Grady, $44,135. (1) 486; (2) Skaneateles-West Lake, Secs. 3, 4, 5; (3) Onondaga; Mott & Kemper, $33,500; J. C. Dayton, $27,997. (1) 505; (2) Norwich-North Norwich; (3) Chenango; F. W. Hamilton, Rochester, $39,000. (1) 506; (2) Chittenango-Eagle Village; (3) Madison; W. S. Tyler, Chittenango, $19,000; Ford Allen, Chittenango, $24,800. (1) 507; (2) Transit, Sec. 3; (3) Niagara; Chambers & Grady, $45,900; Wm. E. Baldwin & Co., Buffalo, $38,699. (1) 509; (2) Oswego-Mexico, Sec. 1; (3) Oswego; Mott & Kemper, $44,700. (1) 510; (2) Homer-Tully, Sec. 1; (3) Cortland; John Weber & Sons, $25,770. (1) 522; (2) Clarence-Hunts Corners; (3) Erie; Good Roads Cons. Co., Buffalo, $32,500; Mosier & Summers, $36,000; F. W. Knickerberg, Buffalo, $31,800; Board Supervisors, $33,500. (1) 523; (2) Hamburg-North Collins; (3) Erie; Mosier & Summers, $106,000; L. H. Gipp, Buffalo, $103,000; Board of Supervisors, $100,000; W. E. Baldwin & Co., $94,000. (1) 534; (2) Northeast Centre-Sharon Station; (3) Dutchess; DeGraff & Hoggaboom, Bloomington, $32,995; Orange County Road Cons. Co., $32,960; Lane Cons. Co., Meriden, Conn., $31,600; General Cons. Co., Bridgeport, Conn., $32,780. (1) 535; (2) Cortland-Dryden, Sec. 2; (3) Cortland; J. C. Dayton, $19,997. (1) 537; (2) Amenia-Wassaic; (3) Dutchess; Orange County Road Cons. Co., $41,050; Lane Cons. Co., $40,000; J. E. Martin, $42,270; General Cons. Co., $39,960. (1) 540; (2) Chatham-Spencertown; (3) Columbia; John W. Poucaro, Pittsfield, Mass., $19,200; A. C. Townsend, New York, $21,250. (1) 549; (2) Poughkeepsie-Pleasant Valley; (3) Dutchess; Casey & Murray, $54,200; Orange County Road Cons. Co., $53,750; J. E. Martin, $52,496; DeGraff & Hoggaboom, $52,800; J. Walker, $58,000; Russell Cont. Co., $65,300. (1) 551; (2) Peekskill-Hughsonville; (3) Dutchess; McNamee & Rice, $22,000. (1) 569; (2) Baldwin Pl.-Mahopee; (3) Putnam; J. Trimeme, Carmel, $48,000; J. Walker, $44,000; J. D. Hyatt, Carmel, $53,000. (1) 577; (2) Schenectady-Guilderland; (3) Schenectady; Schenectady Cont. Co., $49,870; J. T. Finch, $48,287; R. Shafer, $49,000; Malloy & Davis, Schenectady, $51,488. (1) 586; (2) East Pembroke-Genesee; (3) Genesee; F. W. Hamilton, $46,550; Mosier & Summers, $46,800; Chambers & Grady, $39,000; F. W. Knickerberg, $37,900.

NEW YORK, N. Y.—The bids received June 28, by Louis F. Haffen, Pres., Boro. of the Bronx, for constructing the traverse road at Tremont Ave., in connection with the Grand Boulevard and Concourse, were as follows: A. G. Vermilve, 463 West 114th St., $185,640; W. J. Rogers, 1909 Amsterdam Ave., $148,657. Cooper & Evans, 220 Broadway, $180,740; Uvalde Asphalt Paving Co., 1 Broadway, $161,469; A. J. Collins, Fordham Road, $160,580; Culgin-Pace Contracting Co., 787 Tremont Ave., $160,167; Clinton Beckwith, 49 West 27th St., $156,709; George F. Bailey, 1129 Fulton St., $166,248.

OSWEGO, N. Y.—Bids are asked by the Commissioner of Works, for laying 10,000 sq. yds. brick paving. Charles H. Snyder is City Engr.

BUFFALO, N. Y.—We are officially advised that the bids opened June 30, for constructing concrete sidewalks and approaches were: H. P. Burgard Co., 12½ cts. a sq. ft.; E. D. Hofeller, 12¾ cts. a sq. ft.; Robert Seibert, 13 cts. a sq. ft.

BALLSTON SPA, N. Y.—Bids are asked until 7.30 p. m., July 9, by William H. Sherman, Village Clk., for laying vitrified brick pavement on Malta Ave.

TROY, N. Y.—T. HENRY DUMARY & CO., have contract to pave Jackson and Monroe Sts. and Hawthorn Ave. at a total of $23,874.

PEEKSKILL, N. Y.—Bids are asked until noon, Aug. 1, by the Board of Trustees, Albert E. Cruger, Clk., for paving with brick Main and North Division Sts., Peekskill. (Advertised, Engineering News.)

NEW BRUNSWICK, N. J.—Bids are asked until July 20 by the Board of Chosen Freeholders of Middlesex County, at New Brunswick, for construction of stone roads in this county. L. C. M. Brogger, Jr., is County Engr., Perth Amboy.

SOUTH ORANGE, N. J.—Bids are asked until 8 p. m., July 16, by the Committee of Streets and Highways, A. D. Hitch, Chn., for constructing about one mile of Telford pavement, 24 ft. wide. Michael Fitzsimmons is Village Clk. (Advertised, Engineering News.)

WASHINGTON, D. C.—Bids are asked until noon, July 14, by the District Commissioners, for grading certain streets and avenues, aggregating about 30,000 yds. grading; also for grading and regulating suburban streets and avenues.

PHOEBUS, VA.—Bids are asked until 8 p. m., July 19, by John C. Teemer, Town Recdr., for Mellen, Mallory, Asylum and Water Sts. (Advertised, Engineering News.)

HUNTINGTON, W. VA.—F. E. DEAN, of Niagara Falls, N. Y., has secured contract at Huntington for paving, at $65,000.

LA GRANGE, GA.—R. J. GRIFFIN, of La Grange, is reported to have secured the contract for paving about 14,000 sq. yds. and constructing sidewalks in the business section of the city, at about $30,000.

LAKE CHARLES, LA.—Bids are asked until July 9, for 26,000 yds. of vitrified block pavement. C. H. Winterhaler is Mayor.

ASHLAND, OHIO.—Bids are asked until noon, July 16, by the Council, for grading, paving and curbing Third St.

PAINESVILLE, OHIO.—Bids are asked until July 16, by the Board of Public Service, for paving four streets with brick on a gravel foundation, requiring about 31,100 sq. yds. pavement and 15,000 lin. ft. stone curb. H. P. Cummings is City Engr.

BLUFFTON, OHIO.—Contracts for street paving aggregating $45,982 have been awarded to A. J. BOGART & CO., of Columbus Grove, by the Council of Bluffton.

MARION, OHIO.—The Board of Public Service and Health has awarded the contract for paving Columbia St. to HOFSTETTER & DAWSON, of Marion, whose bid of $23,647 on Logan block, with cement filler, was lowest.

ASHTABULA, OHIO.—Bids are asked until July 10, by A. J. Richardson, City Clk., for the paving Adams and other streets here.

CANTON, OHIO.—Bids are asked until noon, July 23, for improving Fulton and Hartford Sts., by excavation, curbing, flagging walks, constructing crossings. C. A. Zellers is Clk.; W. E. Larver is City Engr.

DANVILLE, OHIO.—Bids are asked until July 16 by the Board of Highway Commissioners for paving Batestown Road. The bids received June 23 were rejected because of being too high, the amounts being $39,990 and $40,000.

GLADSTONE, MICH.—Bids are asked until July 9 by the city of Gladstone for paving, curbing and draining four blocks of Delta Ave. W. A. Narracong is City Clk.

BATAVIA, ILL.—The contract for constructing a sewer system at West Batavia has been let to W. N. DEARBORN CO., Stone City, Iowa, for $47,770.

PANA, ILL.—Bids are asked until 8 p. m., July 7, by the Board of Local Improvements, H. N. Schuyler, Pres., for constructing 29,900 ft. of from 8 to 24-in. sanitary sewer.

WINNETKA, ILL.—Bids are asked until July 10, by the Board of Local Improvements for installing storm and sanitary sewers, of from 8 to 15-in. pipe, with septic tank and filters. J. Merrillies is Village Clk.

JANESVILLE, WIS.—Bids are asked until July 20 by the Street Assessment Committee, J. F. Hutchinson, Chn., for paving about 4,820 sq. yds. on River st. and Post Office Alley, with brick. C. V. Kerch is City Engr.

NEW YORK, N. Y.—Bids are asked until 3 p. m., July 9, by John F. Abearn, Pres. Boro. of Manhattan, for regulating, grading, curbing and flagging 153d, 167th, 172d Sts., and Post Ave., for regulating and paving with asphalt 165th and 103d Sts., for flagging sidewalks of St. Nicholas Ave., and for constructing parkways, regulating and repaving with asphalt Broadway, from 135th to 155th St.

CENTERVILLE, IOWA.—Bids are asked until noon, July 10, by the City Clerk, for constructing 32,000 sq. yds. brick paving on 5-in. concrete foundation; also for 23,400 lin. ft. cement curb. The Iowa Engineering Co. are City Engrs.

BEMIDJI, MINN.—Bids are asked until 10 a. m., July 9, by the County Commissioners, for construction of a section of road.

ARMOUR, S. DAK.—See under Sewers.

MINOT, N. DAK.—Bids are asked until 2 p. m., July 10, by the County Commissioners, for constructing a grade in Ward Township. J. W. Fabrick is County Audr.

CHEHALIS, WASH.—The contract for constructing about ten miles of the Cowlitz Pass State Road has been awarded the TACOMA BRIDGE CO., at about $20,000.

NEEPAWA, MAN.—The Town Council gives notice of its intention to construct granolithic sidewalks on Fifth St. and Mountain Ave.

MEDICINE HAT, SASK.—Bids are asked until 4 p. m., July 9, by the Secretary-Treasurer, for constructing concrete sidewalks, curbs and making other street improvements in Medicine Hat. William P. Morrison is City Engr.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

KEENE, N. H.—The Monadnock Hosiery Co. has been organized with a capital of $50,000 and will erect a hosiery factory here. The officers of the company are G. A. Olsendam, Pres.; T. P. Voorhees, Treas.; L. H. Olsendam, Clk.

NORTH BROOKFIELD, MASS.—Chas. Beebe and Thos. Richards, of the Boston Woven Hose & Rubber Co., will organize the B. & R. Rubber Co., and erect a factory at North Brookfield.

WORCESTER, MASS.—It is reported that the Wachusetts Mills will build additions doubling the size of the factory.

PAWTUCKET, R. I.—The Solway Cotton Mills, of Westerly, R. I., are to be consolidated with the Ingrahamville Dye Works in Pawtucket, and a new 4-story mill, 60 × 150 ft. erected at Pawtucket by the new company.

STERLING, CONN.—The United States Finishing Co., manufacturers of cotton finishings, has awarded to PECK, McWILLIAMS & CO., of Norwich, the contract for the mill, stock and 18 tenement houses, which it is to erect at Sterling. The mill will be 2-story, brick, 116 × 158 ft. The cost is approximately $72,000.

NEW CASTLE, PA.—It is reported that the Lehigh Portland Cement Co. will build a mill here at a cost of $1,000,000.

RICHMOND, VA.—It is reported that Richard Hart, of Gloversville, N. Y., will establish a glove factory here.

ROXBORO, N. C.—The Roxboro Cotton Mills are to be enlarged by the construction of a building 130 × 266 ft. and an addition to the power plant.

GRAHAM, N. C.—The Sidney Cotton Mills will build a 2-story addition, 50 × 141 ft., to the present plant, and a dryhouse 60 × 34 ft. Total cost, $60,000.

SELMA, N. C.—Contract for all work incident to building the new Lizzie Cotton Mill has been awarded to S. W. CRAMER, of Charlotte, N. C. M. C. Winston is Pres.

VICKSBURG, MISS.—It is reported that Moncure Dabney will build a cotton factory here.

CHATTANOOGA, TENN. — The Fuller Comb Ginning Co. will build a $75,000 plant here and remove the present factory from Charlotte, N. C.

KNOXVILLE, TENN.—The Standard Knitting Mills are to build an addition to be used as a woolen mill. Work has commenced on the foundations.

MASSILLON, OHIO.—The American Bottle Co. will rebuild the plant recently destroyed by fire.

COLUMBUS, OHIO.—We are officially advised that plans for the brick plant to be erected by the Columbus & Hocking Valley Coal & Iron Co. are ready. All contracts to be let on a strictly competitive basis and no commissions allowed. R. A. Magly, New First National Bank Bldg., is Gen. Mgr.

MUSCATINE, IA.—The Clinton Sugar Refining Co. is planning the erection of a $600,000 sugar factory.

BRAINERD, MINN.—The Northern Pacific R. R. Co. is planning to locate a plant to preserve ties and timber here at a cost of $100,000.

OMAHA, NEBR.—The Wentworth-Kloke Showcase Co. will erect a 3-story building, 100 × 200 ft., to manufacture showcases. Lew Wentworth, Omaha, is Pres.

SHERIDAN, WYO.—It is reported that J. R. McKinnie and A. R. Shoup, of Colorado Springs, Colo., will erect a beet sugar factory here at a cost of $1,000,000.

FREDERICKTOWN, MO.—It is reported that the North American Lead Co., of Columbus, Ohio, will build a $250,000 smelter on its property here.

MOUNT VERNON, WASH.—The Pacific Coast Condensed Milk Co. will erect a plant here at a cost of $150,000.

LOS ANGELES, CAL.—The West Coast Steel Co., recently incorporated, capital $100,000, will erect a fabricating plant for structural steel at 38th and Alameda Sts.

TONOPAH, NEV.—The Tonopah Mining Co. is planning the erection of a 60-stamp mill and cyanide plant here.

POCATELLO, IDAHO.—It is reported that J. F. Levor, of Eureka, Cal., will erect a woolen mill here.

AMHERST, N. S.—The Hewsome Woolen Mills will be enlarged by the erection of a 4-story addition, 200 ft. long.

HAMILTON, ONT.—The Canadian Axminster Carpet Co. has secured a site and will erect a carpet mill here.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

DAM.—Orillia, Ont.—Contract for construction of new cement dam at Ragged Rapids has been awarded to QUINLIN & ROBERTSON, Montreal, Que.; cost, $46,487.

CHANNEL.—New York, N. Y.—The U. S. Senate and House has passed a bill calling for a survey of Coney Island channel and a channel through Rockaway Inlet into Jamaica Bay.

DITCH.—Storm Lake, Iowa.—It is reported that a new drainage ditch will probably be constructed through Barnes, Lee, Scott, Lincoln and Grant Townships, at an estimated cost of $200,000.

DITCH.—Spirit Lake, Iowa.—Bids are asked until July 23 by the Board County Supervisors, for constructing an open ditch for Richland Township, Drainage Dist. No. 2, consisting of approximately 85,737 cu. yds. excavation.

DREDGING.—Boston, Mass.—Plans, specifications and instructions to bidders for dredging in Fort Point Channel, Boston Harbor, are on file at office of Engineering News, New York. Bids are asked until July 19, as advertised in Engineering News.

PILE PIERS.—Manitowoc, Wis.—Bids are asked until 3 p. m., July 30, at the U. S. Engineer Office, Milwaukee, Wis., for removing old piers and building pile piers, in Manitowoc Harbor. W. V. Judson is Major, U. S. Engrs. (Advertised, Engineering News.)

STONE PROTECTION.—Ottawa, Ont.—Bids are asked until 4 p. m., July 5, for placing stone protection along certain portions of the summit level of the Welland Canal, between Thorold and Port Colborne. L. K. Jones, Secy., Dept. Rys. and Canals, Ottawa.

LOCK.—Donaldsonville, La.—Bids are asked until noon, Oct. 1, at office of Board of State Engineers of Louisiana, Cotton Exchange Bldg., New Orleans, for construction of a lock at head of Bayou Lafourche. J. S. Brady, Chn. Executive Com. (Advertised, Engineering News.)

DREDGING.—New London, Conn.—Two bids were received on June 26, by Maj. Harry Taylor, U. S. Engr., for dredging in Housatonic River, as advertised in Engineering News. They were as follows: Edward A. Berry, Rensselaer, N. Y., 16 cts. per cu. yd. (recommended); John P. Randerson, Albany, N. Y., 16 cts.

EXCAVATION WORK.—Sandusky, Ohio.—All bids opened on May 25 by the Board of Public Service for excavating about 22,000 cu. yds. of rock and 7,500 cu. yds. of clay and sand from Sandusky Bay, were rejected. New bids will be received until July 11 by the Board of Public Service. Chas. Thiem, Secy.; A. C. Schultz, City Engr.

CONCRETE WALL.—Ithaca, N. Y.—Bids are asked until July 17 by the Creek Drainage and Park Commission for excavating about 35,000 cu. yds. earth and 1,200 cu. yds. rock; also for constructing about 2,600 cu. yds. concrete wall and 3,500 sq. yds. concrete slope wall. Edward Hayes is Engr. (Advertised, Engineering News.)

CANAL.—Donaldsonville, La.—C. S. E. Holland, of Victoria, Tex., states that it is proposed to construct a canal between Donaldsonville and Brownsville, Tex. Bids will be called for, after approval by the U. S. Government. It will cost between $4,000,000 and $5,000,000. Capt. Edgar Jadwin, Corps Engrs., at Galveston, Tex., is Engr.

SHIP CANAL.—Boston, Mass.—The House on June 26 passed to be enacted the bill to incorporate the Boston, Brockton & New York Canal & Transportation Co. The capital of the company is $30,000,000. It is planned to construct a ship canal from Boston Harbor to Narragansett Bay. L. E. Chamberlain, of Brockton, is attorney for this company. E. B. Mellen, of Brockton, is also interested.

CONCRETE AND GRANITE APPROACH.—New York, N. Y.—Bids were received as follows on June 28 by Department of Parks for construction of concrete and granite approach to boat-house, Prospect Park, Borough of Brooklyn; J. Edwards, Jr., $35,875; Charles Meads Co., 299 Broadway, $33,800; Church Construction Co., 949 Broadway, $33,637; Cooper & Evans, 220 Broadway, $34,400; James McArthur, 22 Ormond Place, Brooklyn, $33,993.

EXTENSION OF PIERS.—Philadelphia, Pa.—Bids were received on June 30, by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for extensions of Piers 2 and 3, at the League Island Navy Yard, as follows: American Paving & Construction Co., 211 South Ninth St., Philadelphia, $51,400; The Snare & Triest Co., 143 Liberty St., New York, N. Y., $50,900.

RAILWAY TIES.—Ottawa, Ont.—Bids are asked until noon, July 12, for 535,000 railway ties; also, until noon, Sept. 4, for 1,010,000 railway ties. Specifications may be obtained on application to Hugh D. Lumsden, Chief Engineer, Ottawa, Ont., to A. E. Doucet, District Engineer, Quebec, P. Q., or to A. E. Hodgins, District Engineer, Kenora, Ont. P. E. Ryan, Secy. Transcontinental Railway Comn., Ottawa.

SINKING COAL-SHAFTS.—South Fork, Pa.—Bids are asked by the Maryland Coal Co., of New York, for sinking two coal-shafts in the vicinity of South Fork, near Johnstown, Pa. The main shaft is to be 29 ft. 8 ins. × 12 ft. 8 ins., and the air shaft 17 ft. 6 ins. × 12 ft. 8 ins. in section; and each between 600 and 700 ft. in depth. Frank E. Brackett, Supt., Cumberland, Md. (Advertised, Engineering News.)

CITY IMPROVEMENTS.—New York, N. Y.—Mayor George B. McClellan on June 23 approved the resolution giving to the Park Department an appropriation of $1,859,860 for the construction of new buildings, repair of existing buildings, and general improvements of the park system in the different boroughs; of this amount Manhattan and Richmond receive $590,000, the Bronx $634,930, and Brooklyn and Queens $634,930.

DREDGING.—Jacksonville, Fla.—The following are the bids opened on June 22 by Maj. Francis R. Shunk, Corps. Engrs., U. S. A., for dredging Trout Creek Shoal, St. Johns River: (a) 15,500 cu. yds. rock, per cu. yd.; (b) 75,000 cu. yds. sand, per cu. yd.: P. Sanford Ross, Inc., Jersey City, N. J., (a) $4.50, (b) 24 cts.; Southern Dredging Co., Mobile, Ala., (a) $4.90, (b) 29 cts.; Roderick G. Ross, Jacksonville, Fla., (a) $4.33, (b) 22¾ cts.; North American Dredging Co., Oakland, Cal., (a) $5.95, (b) 23¾ cts.

RIVER IMPROVEMENTS.—Des Moines, Iowa.—Isham Randolph, of Chicago, Ill., drainage engineer and expert, has submitted to City Engineer Geo. D. Dobson his report on the improvement of Des Moines and Raccoon Rivers, and providing for flood protection, and he recommends the extension of work of channel improvement down stream; lowering gas and water mains blocking stream; taking out useless piers; purchase of a hydraulic dredge by city at a cost of about $35,000; immediate construction of new channel for Raccoon River and the continuation of the building of levees along stream above dam.

LEVEE.—Memphis, Tenn.—B. G. Covington, Asst. Engr., St. Francis Levee Bd., 164 Randolph Bldg., Memphis, states that R. L. LEONARD, of Memphis, has secured the contract for levee work (bids opened June 20) at the following bid: 44,500 cu. yds. levee enlargement work, 18 cts.; 50,600 cu. yds. levee enlargement work, 20 cts.; 3,000 cu. yds. levee enlargement work, 16 cts.; 4,000 cu. yds. levee banquette work, 16 cts.; 192,500 cu. yds. levee enlargement work, 17 cts.; 50,000 cu. yds. enlargement work, 16.5 cts.; 172,500 cu. yds. levee enlargement work, 18 cts.; 18,000 cu. yds. levee banquette work, 20 cts.; 440,000 cu. yds. levee enlargement work, 16.5 cts. The contract for 464,200 cu. yds. of new levee bids, opened same time and place, was not let.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

SEWER GATES.—Manila, P. I.—Bids are asked until noon, Sept. 7 by the Municipal Board, John M. Fuller, Secy., Manila, for furnishing and delivering at ship's side, in Manila, 413 sewer and sluice gates, for the proposed sewer system of this city. J. F. Case is Ch. Engr. (Advertised, Engineering News.)

STEEL SHEDS.—Manila, P. I.—The Bureau of Insular Affairs, War Dept., Washington, announces that the Director of Port Works, Philippine Islands, will readvertise under date of July 19, 1906, for the construction of two steel wharf sheds and wharf railways at Manila. Bids will be opened at 11 a. m., Oct. 15, 1906, at the Bureau of Port Works, Manila, P. I. These bids were opened on May 4, 1906, but were rejected by the Philippine Government as being excessive. Specifications may be seen at the offices of the Engineering News, New York and Washington.

PROPOSED ENGINEERING WORK.—Porto Rico.—We are advised by Waldeman E. Lee, Acting Consul for Sweden, at San Juan, P. R., that engineering work contemplated in Porto Rico is as follows:

Railroads.—Porto Rico Light & Power Co., San Juan, P. R.—Electric railroad San Juan to Ponce; distance, about 80 miles; water power of Rio La Piata. American Railroad Co. of Porto Rico, San Juan, P. R.—Extension of its lines to Humacao; distance, 46 miles. Compagnie des Sucreries de Porto Rico, Ponce, P. R.—Steam railroad Ponce to Coamo; distance, 20 miles. Finlay Bros. & Waymouth Trading Co., San Juan, P. R.—Steam power; railroad Vega Alta to Dorado; distance, 12 miles (now in operation). American Railroad Co. of Porto Rico, San Juan.—Junction of its line at Camuy to Isabela; about 23 miles; this is the line from San Juan to Ponce by the western sea coast; a fine bridge is being constructed at that point. Fajardo Sugar Co., Fajardo, P. R.—Steam; Fajardo to Naguabo; cane and passengers. Porto Rican Leaf Tobacco Co., San Juan, P. R. (Franchise pending.)—Electric; San Juan to Caguas. One of the best investments in this island. Three big companies are involved in the fight for the franchise.

Construction of Docks and Piers.—The New York & Porto Rico Steamship Co. may be obliged to construct a new pier at San Juan. The Insular Government is endeavoring to cancel franchise granted this company to operate its present pier, taking it over for use as a public pier. New docks and piers are bady needed in San Juan harbor; at the present the available space is not sufficient to accommodate ships calling at the port. The Insular Legislature has appropriated $70,000 for dock and harbor improvements at San Juan, Ponce and Mayagues.

Miscellaneous.—The Municipality of San Juan contemplates the erection of an electric plant and extension of the sewer system. At Sainte Jeanne Central, Caguas, P. R., a sugar mill is being erected at that point by a Belgian syndicate.

RAILWAYS.—Philippine Islands.—It is officially announced by the Bureau of Insular Affairs, War Dept., Washington, that the Philippine Government has awarded to SPEYER & CO., 24 Pine st., New York, who have formed a corporation under the name of the Manila Railroad Co., the concession for the construction of 390 miles of railroad in the island of Luzon, and the operation under one management of 508 miles, including the already existing 208 miles between Manila and [illegible]upan, now being operated by the Manila Railway Co. The bid of Speyer & Co. [illegible] of railway privileges in the [illegible] (except the Dagupan-Laoag [illegible] guarantee of interest by the [illegible]ment. The 390 miles to be constructed [illegible] Manila to Batangas, with branches [illegible]amba to Santa Cruz (five miles), and [illegible] Tomasio to Lucena (47 miles), forming [illegible] of 147 miles; from Pasacao to Li[illegible] Ligao to Tabaco, Ligao to Legaspi, total [illegible] miles; Dagupan to Camp No. 1 (25 m[illegible] branches from the Manila-Dagupan line [illegible] follows: From Manila to Cavite and Na[illegible] miles); from San Fernando to Florid[illegible] (14 miles); from Dau to San to San[illegible] Mag-alang (nine miles); from San [illegible] to La Paz (ten miles); from Moncado [illegible]mingan (24 miles); and a branch from [illegible]ina to Montalban (eight miles). The [illegible] specified are intended as approximate [illegible]. Speyer & Co. also made a bid to [illegible] for the Dagupan-Laoag line (168 miles) [illegible] with a maximum guarantee of 4% for [illegible] years, on 95% of the cost, but this propo[illegible]n was subsequently modified, and the M[illegible] Railroad Co. now agrees to construct [illegible] from Dagupan to San Fernando (35 mi[illegible] a part of the Dagupan-Laoag line, with guarantee of interest. The bidders agree to commence surveys within 60 days after demand by Philippine Government and complete them within six months. The time of [illegible]pletion to be 75 miles per year. Gage to be 3 ft. 6 ins., as in existing Manila-Dagupan line, and to be operated by steam. Electricity may be used by permission of the Philippine Government. All material is to be good. The grantee has the right to operate telephone and telegraph lines, for railroad and government service, and the government may erect at its own expense four wires on the poles of the company for exclusively government business. Material to be imported is to be exempt from duties and port charges. The final terms of taxation agreed upon are somewhat different from those mentioned in the bid. For a term of years, the tax will be ¼ of 1%, increasing by degrees to 1½% at the end of 80 years, after which time the rate of interest will be fixed by the Philippine Government. The final steps in the matter will not be taken until the Philippine legislative body passes an act ratifying the contract. This is expected to be done very shortly. Col. C. R. Edwards is Ch. of the Bureau of Insular Affairs.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

RAILWAY.—Guerrero.—The Guerrero Iron and Timber Co. is planning to construct 250 kilometers of railway from its timber lands to Marquez Bay, on the Pacific Coast. Maj. J. E. Earley, Calle de Ortega, No. 28, City of Mexico, is Ch. Engr.

REDUCTION WORKS.—Chinipas District, Chihuahua.—The Amoloya Mining Co., organized by Los Angeles, Cal., and New York capitalists, headed by N. O. Bagge, of New York, will at once begin the erection of large reduction works at the Santa Barbara mine, in the Chinipas Dist., State of Chihuahua.

MASONRY WORK.—Guadalajara, Jalisco.—About Oct. 1 work will be commenced to cover the San Juan de Dios River, passing through the city of Guadalajara. About 4,500 lineal ft. will be covered with a masonry culvert about 16.5 ft. wide. The estimated cost is $200,000. Manuel Marroquin, of the Dept. of Public Works, City of Mexico, is preparing the plans.

RAILWAY.—Yondese-Toluca, Mexico.—To tap a large timber tract on the Suchitepec hacienda, the El Oro Mining & Railway Co., of El Oro, State of Mexico, has decided to build a railway from Yondese, the present terminus of the line, to Toluca, or to connect with the National near Toluca. The line will be about 50 kilometers long, and the estimated cost about $800,000.

TRAMWAY EXTENSIONS. — Monterey, Nuevo Leon.—It is reported that the MacKenzie Co., with headquarters in Toronto, Canada, contemplates extending electric tramway lines to all important suburban points from Mexican cities in which they operate. The company will extend lines from Monterey to El Porvenir, and to the suburban points of the Santa Catalina Valley.

RAILWAY.—Monclova, Coah.—A. L. Tuttle, Gen. Supt. of the Panuco Mountain & Monclova Ry., at San Antonio, Tex., states that J. F. BURNS, Estacion, Monclova, Coahuila, Mex., has the contract for building this road from Monclova to Panuco Mountain, 40 miles. Surveys have been completed and grading has been finished for a distance of five miles out of Monclova. The road will be 36-in. gage and will be laid with 30-lb. rails. Otto Wahrmund is Pres., San Antonio, Tex.; J. M. Howe is Ch. Engr., Estacion, Monclova, Coahuila, Mex.

RAILWAY WORK.—Mexico.—The Mexican Central Ry. Co. during the present year will let contracts for the construction of three important extensions. The contract for the construction of the short line from Tampico to Mexico City will be awarded in September, and construction pushed immediately after the close of the rainy season. During the latter part of September, or in October, the contract will be let for the building of the branch line from Colima, State of Colima, to Autlan, Jalisco, a distance of about 120 kilometers, and also the extension from Marfil, State of Guanajuato, to the City of Guanajuato. L. Kingman, City of Mexico, is Ch. Engr.

RAILWAY.—Yucatan.—The Pan American Ry. is completed for a distance of 175 miles, from San Geronimo, near the City of Tehuantepec and Salina Cruz on the National Railroad of Tehuantepec, to Pijijapam, at the extreme southwestern boundary of the Republic of Mexico. The road parallels the Pacific coast, on the outside of the Cordillera Mountain range, following the famous

old Camino Real, or royal road, which the Spanish conquerors made, down from the Isthmus of Tehuantepec, and its route is direct from San Geronimo, on the Isthmus near the Pacific port of Tehuantepec, at the Tehuantepec-Guatemala boundary. Construction in Guatemala will be started in January, 1907. J. M. Neeland, vice-president and general manager has arranged with the Guatemalan government for a subsidy of $24,000 gold per mile through Guatemala from Tehuantepec to Salina Cruz. Subsidies have been offered also by Salvador and Honduras. President Diaz has tendered a subsidy of $10,000 a mile to extend the line a distance of 600 miles to Tonala, 100 miles south of Salina Cruz, in the state of Yucatan, on the Gulf of Campeche.

This new line would open up a territory that now has no transportation facilities, and would provide the Pan-American Railroad with an Atlantic-Pacific route. The Mexican government is manifesting deep interest in the enterprise, chiefly because of the apparent strategic advantages from a military viewpoint. The government has acquired title or control in the roads operating from the United States boundary down to the Isthmus of Tehuantepec. The Pan-American would afford communication from San Geronimo, on the National Railroad of Tehuantepec, down to the southwestern boundary of the Republic of Mexico and through Tehuantepec and Yucatan from Tonala, adjacent to the Pacific coast, to the port of Campeche, on the Gulf of Campeche, on the Atlantic coast. S. C. Miller, Tonala, is Ch. Engr. Another reason for the interest displayed by the Mexican government is the opening and development of new territory. For the construction which is completed the government has contributed a subsidy of $10,000 gold per mile, or about $1,700,000 in all. The road lately issued $1,000,000 of 5% bonds to continue the building. It is said to be a paying investment already, as last year, after meeting interest obligations and current expenses, it exhibited a surplus of $2,700.

CIVIL SERVICE EXAMINATIONS

ARCHITECTURAL AND STRUCTURAL STEEL DRAFTSMAN.—Tompkinsville, N. Y.—The U. S. Civil Service Commission announces the postponement to Aug. 8-9, 1906, of the examination scheduled for July 5-6, to secure eligibles to fill a vacancy in the position of draftsman (architectural and steel), at $100 per month, under the engineer of the Third Light-House District, Tompkinsville, N. Y., and vacancies as they may occur in any branch of the service requiring similar qualifications. As but one person applied for the examination announced for July 5-6, qualified persons are urged to enter this examination. Age limit, 20 years. Application form 1312.

ARCHITECTURAL DRAFTSMAN.—Philippine Islands.—A postponement of the examination scheduled for July 5-6 is announced by the U. S. Civil Service Commission until Aug. 15-16, to fill a vacancy in the position of architectural draftsman (male) in the Philippine Service, at $1,800 a year, and other similar vacancies as they may occur in that service. As but one person applied for the examination announced for July 5-6, qualified persons are urged to enter this examination. Men only will be admitted to this examination. Age limit, 18 to 40 years. Application forms 2 and 375.

SURVEYOR.—Philippine Islands.—The U. S. Civil Service Commission announces the postponement to Aug. 8-9, 1906, in view of no applications having been filed, of the examination scheduled for July 11-12, at the places mentioned in the accompanying list, to secure eligibles from which to make certification to fill at least 18 vacancies in the position of surveyor, at $1,400 a year each, in the Philippine Service, and similar vacancies as they may occur in that service. The Department states that the appointment of about forty additional surveyors is contemplated in the near future. As the Commission has experienced considerable difficulty in securing eligibles for this position, an examination having been held on March 21-22, 1906, qualified persons are urged to enter this examination. Age limit, 18 to 40 years. Application forms 2 and 375.

ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—
Pittsburg f. o. b cars—Angle bars, 1.50 to 1.75 cts.; spikes, 2.25 to 2.35 cts.; bolts, square nuts, 2.65 to 2.75 cts.; bolts, hexagonal nuts, 2.80 to 2.90 cts.

RAILS, STEEL—
New York—at mill—New standard sections, $28; standard, second quality, $27; light sections 12 to 25 lbs., $30 to $33; old iron f. o. b. New York, $20 to $21; old steel, long lengths, $16.50 to $17; old steel, short pieces, $15 to $16.
Pittsburg—Standard sections, at mill, $28. standard, second quality, $27; light rails, 12 to 25 lbs., $27 to $35.

STRUCTURAL MATERIALS—
New York—at tidewater—Beams and channels, up to 15-in., 1.86¼ cts.; over 15-in., 1.96½ cts.; angles, 3 × 2 and up to 6 × 6, 1.96½ cts.; zees, 3-in. and larger, 1.96½ cts.; tees, 3-in. and larger, 1.86¼ cts.; steel bars, half extras, 1.50 cts.

PLATES AND SHEETS—
New York—at tidewater—Sheared plates, tank, 1.76¼ to 1.86¼ cts.; flange, 1.86¼ to 1.96½ cts.; marine, 2.04½ to 2.24½ cts.; mill bottoms, 2.04½ cts.; fire box, 2.24½ to 3.05 cts.
Pittsburg—Tank, ¼-in. thick and heavier, 1.79 cts.; black sheets, 27 gage, 2.56½ to 2.61½ cts.; black sheets, 28 gage, 2.66½ to 2.71½ cts.

IRON—
Pig Iron:
New York tidewater—No. 1 X Foundry, Northern, $18.25 to $18.75; No. 2 X Foundry, Northern, $17.75 to $18.25; No. 2 Plain Foundry, $17 to $18; Gray Forge, Northern, $17 to $17.50; Basic Northern, $17.50 to $18; Basic, Alabama, $18.50; Basic, Virginia, $19.10; No. 1 Virginia Foundry, $17.50 to $18; No. 2 Virginia Foundry, $17.00 to $17.50; No. 1 Foundry, Southern, $17.50 to $18; No. 2 Foundry, Southern, $17 to $17.50; No. 3 Foundry, Southern, $16.50 to $17; No. 4 Foundry, Southern, $15.50 to $16.50; No. 1 Soft, Southern, $17.50 to $18; No. 2 Soft, Southern, $17 to $17.50; Gray Forge, $16.50 to $17; Mottled, $15.75 to $16.
Chicago—Lake Superior Charcoal, $19; Northern Coke Foundry, No. 1, $18.50 to $18.75; Northern Coke Foundry, No. 2, $18 to $18.25; Northern Coke Foundry, No. 3, $17.50 to $17.75; Northern Scotch, No. 1, $19.25 to $19.50; Ohio Strong Softeners, No. 1, $18.55 to $18.90; Ohio Strong Softeners, No. 2, $18.05 to $18.30; Southern Coke, No. 1, $17.40 to $17.90; Southern Coke, No. 2, $16.90 to $17.40; Southern Coke, No. 3, $16.40 to $16.90; Southern Coke, No. 4, $15.90 to $16.40; Southern Coke, No. 1, Soft, $17.40 to $17.90; Southern Coke, No. 2 Soft, $16.90 to $17.40; Southern Gray Forge and Mottled, $15.65 to $16.15; Malleable Bessemer, $17.80 to $18.05; Standard Bessemer, $19.30 to $19.55; Jackson Co. and Kentucky Silvery, 6%, $20.30 to $20.80; Jackson Co. and Kentucky Silvery, 8%, $21.30 to $21.80; Jackson Co. and Kentucky Silvery, 10%, $23.30 to $23.80.
Pittsburg, f. o. b. cars—No. 2 Foundry, $18.35; Gray Forge, $17.35; Bessemer Iron, $17.75; Ferro-Manganese, $125 to $160; Muck Bars, $32. Iron Bars, $1.25 to $2.

Cast-Iron Pipe,
New York—Carload lots, net tons, 6-in., at tidewater, $32.
Chicago—4-in. water pipe, $32.50; 6-in. and larger; $31.50; with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—
Asphaltum:
Ventura and other California asphalts, $19 to $21 per ton at New York; Trinidad refined, $20 to $25 per ton; Venezuela asphalt, $25 to $30 per ton; Bermuda asphalt, $25 to $30.
Cement:
Rosendale or Natural, in wood, 95 cts. per bbl.; Portland domestic, in sacks, $1.20 to $1.30; in wood, $1.50 to $1.60; German Portland, $1.90 to $2.10.
Copper:
Lake, 18.50 to 18.75 cts.; electrolytic, 18.25 to 18.50 cts.; casting, 18.12½ to 18.25 cts.
Lead:
New York, spot, 5.80 to 5.85 cts.
Spelter:
New York, spot, 6 to 6.10 cts.
Tin:
New York, spot, 38.70 to 38.90 cts.
Tar:
New York, $5 to $5.50 per bbl.
Pitch:
New York, $3 to $3.20 per bbl.

LUMBER—
New York, wholesale prices:
Piling—Spruce, ordinary cargoes, 6 to 7 cts.; oak, 14-in. butt, 40 to 50 ft., 19 cts.; 50 to 55 ft., 22 cts.; 55 to 60 ft., 23 cts.; 60 ft. and up, 25 cts.; pine, 60 to 65 ft., $8.50; 65 to 70 ft., $9.50; 70 to 75 ft., $10.50. 80 ft. and up, $16.
Railroad ties—Yellow pine, 6 × 9 ins. × 8 ft., 67 to 69 cts.; 6 × 8 ins. × 8 ft., 62 to 64 cts.; 7 × 9 ins. × 8 ft., 75 to 77 cts.; 7 × 8 ins. × 8½ ft., 74 to 75 cts.; 7 × 9 ins. × 8½ ft., 79 to 80 cts.

INDUSTRIAL NOTES.

THE WELLMAN-SEAVER-MORGAN CO. reports that its Pacific coast office has been moved from its temporary location, at Oakland, and is now permanently located in the Atlas Bldg., 604 Mission St., San Francisco, Cal.

THE PALMER MOUNTAIN TUNNEL & POWER CO., whose mines are in Washington, not far from Midway, B. C., has closed a contract with the Traylor Engineering Company, of New York, for a 100-stamp mill to be built at once. The contract was made at the New York office of The Palmer Mountain Tunnel & Power Co., 50 Wall St., through negotiations carried on by General Manager, John W. Boyd. The Traylor Engineering Company is to complete the shipment of the machinery in 90 days.

THE FOOS GAS ENGINE COMPANY, Springfield, Ohio, manufacturers of stationary, portable, ready for mounting and electric light engines, also sawing rigs and special outfits, has just purchased $20,000 worth of machine tools, consisting of lathes, planers, boring mills, etc. The business so far this year shows an increase of 50% over any previous year and as the output is not sufficient to meet the increasing demand for its engines it was absolutely necessary for them to get this extra equipment.

THE ABNER DOBLE COMPANY announces that it has relocated its offices at its former site, Fremont and Howard Streets, San Francisco. The company is one of the first to resume operations in the burned district, and has taken contracts for a large amount of work in addition to the orders on hand previous to the fire. Work is progressing rapidly on the company's new shops and warehouses in the Potrero district at Seventh and Hubbell Sts. Temporary pattern and forge shops are already in operation on the new site.

THE DUFF MANUFACTURING CO., of Allegheny, Pa., has opened a New York office in the Havemeyer Building at 26 Cortlandt St., in charge of Mr. George A. Edgin. The company has also leased a warehouse within easy reach of their office where a complete line of Barrett track and bar jacks will be kept in stock, as well as a quantity of Duff roller bearing screw jacks. Users of jacks in the vicinity of New York will find it convenient to send their orders and inquiries to 26 Cortlandt St., as this branch is now in a position to ship orders promptly.

DR. CHARLES F. McKENNA has received from the McCall Ferry Power Company the contract for control of all the cement to be used in the construction of the great dam on the Susquehanna River at McCall Ferry. It is probable that 600,000 barrels of cement will be used there; much of this will be forwarded from the mills to the site of the work at the rate of 1,000 barrels per day. Dr. McKenna is still engaged on the inspection of cement being used on the great Hartford stone bridge, and besides has the control of cement being delivered to large works at New Orleans and San Francisco, together with current work of inspection in New York and vicinity.

THE SCHERZER ROLLING-LIFT BRIDGE CO., 1616 Monadnock Block, Chicago, reports among recent American orders two double-track rolling-lift bascule bridges of 145-ft. and 160-ft. span for the Norfolk & Western Ry. Among recent foreign orders are the following: 1, a double-track bridge at Kartoum, Egypt; 2, a long-span bridge over the Ngawun River for the Burmah Railways. 3, the Buccleugh Bridge at Barrow-in-Furness, England, of which bridge Sir Benjamin Baker is consulting engineer. The company also reports that substantial progress is also being made in the construction of the Walney Island bridge, in England, and the Ekaterinofka bridge, in Russia.

THE BUFFALO FORGE CO. reports that it has received the entire contract for heating and ventilating all of the buildings in the new Elmwood Ave. plant of the George N. Pierce Co., where the Pierce 1907 cars will be built. One of the original fan system heating and ventilating plants installed by the Buffalo Forge Company in Buffalo was placed in the first works built by the Geo. N. Pierce Co., on Hanover St. This outfit was built a quarter of a century ago, and was used in the factory in which the Pierce bicycles have been built. These buildings have long been overcrowded, and since the fire, which destroyed a part of the Hanover St. plant last winter, plans have been drawn up and contracts let for a magnificent group of buildings located on the Pan American site at Elmwood Ave. and the Belt Line, which in equipment and construction will be unexcelled in this country.

TRADE PUBLICATIONS.

WATER METERS AND VALVES.—Simplex Valve & Meter Co., Philadelphia, Pa. Paper; 6 × 9¼ ins.; pp. 23; illustrated.

This pamphlet briefly discusses the various methods in use of measuring water, and gives explanations and price lists of the Simplex water meters and valves.

FRICTION SPRINGS.—The Frost Railway Supply Co., Detroit, Mich. Paper; 9 × 6 ins.; pp. 47; illustrated.

The Harvey friction springs are described with numerous illustrations of various types. Their advantages are set forth, and records of tests made with them are shown.

FIREPROOFING.—Trussed Concrete Steel Co., Detroit, Mich. Paper; 5¼ × 8 ins.; pp. 31; illustrated.

Tests and endorsements of the Kahn trussed beam are given, together with reports on concrete steel construction as subjected to fire at Baltimore and San Francisco.

REINFORCED CONCRETE.—Trussed Concrete Steel Co., Detroit, Mich. Paper; 5¼ × 8 ins.; pp. 31; illustrated.

A theoretical calculation of the formulas for reinforcement of concrete, together with tables based upon the use of the Kahn trussed bar, are contained in this pamphlet. It represents the advance sheets of Part I. (Calculation) of Practical Calculation and Application of Reinforced Concrete.

STEAM PIPE UNIONS.—Joseph Dixon Crucible Co., Jersey City, N. J. Paper; 5¼ × 7¼ ins.; pp. 19; illustrated.

This booklet is a reprint from "Graphite." It is an illustrated article by W. H. Wakeman, describing various styles of unions, and gives instructions for their installation, care, etc.

DERAILS.—Hayes Track Appliance Co., Geneva, N. Y. Paper; 6 × 9 ins.; pp. 16; illustrated.

Two forms of derails are illustrated: the "Lifting" derail for operation in connection with an interlocking plant or from the switch-stand; and the "Pivot" derail for operation by hand.

FIREPROOFING.—The Vulcanite Portland Cement Co., New York City. Paper; 6 × 9 ins.; illustrated.

Fireproof hotel construction, as exemplified by the Marlboro-Blenheim at Atlantic City, is described. Details are given of the structural features of the building and of the use in it of Portland cement. This work was described in detail in our issue of March 8, 1906.

ELECTRIC MOTORS.—Westinghouse Electric & Mfg. Co., Pittsburg, Pa. Special Publication 7,049. Paper; 6 × 9 ins.; pp. 16; illustrated.

This catalogue gives general descriptions of direct and alternating current motors for all kinds of service. The sizes listed run from ¾ to 120 HP. in the direct current motors, and from 1 to 500 HP. in the alternating current.

ROCK CRUSHING PLANTS.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin No. 1411. Paper; 8 × 10½ ins.; pp. 48; illustrated.

This bulletin is a reprint of Catalogue No. 125, and describes crushers, screens, elevators and driving connections. About half of the catalogue illustrates plants of various companies in which the apparatus of the company has been installed, the cuts showing the general dimensions of the plants.

MOLDING MACHINES.—Ph. Bonvillain & E. Ronceray, Paris, France. Paper; 6 × 9½ ins.; pp. 36; illustrated.

The "Universal" molding machine is described, together with instructions for working the same. The general dimensions of the different sizes of machines are given, together with the number, size and weight of castings that each machine will mold per hour. Besides the illustrations of the machine, there are numerous cuts of molds made by them.

VARIABLE SPEED MOTORS.—Crocker-Wheeler Co., Ampere, N. J. Bulletin No. 67. Paper; 7½ × 9¾ ins.; pp. 12; illustrated.

These are the Form I-F motors, having speed ranges of 2 to 1, 2½ to 1 and 3 to 1, and are made in sizes 1½ to 32 HP. This variation in speed is obtained by weakening the field, and the motors are so designed that they operate without sparking, at all speeds. The bulletin contains line cuts and dimensions for the various sizes.

REFRIGERATING AND ICE-MAKING MACHINERY.—De La Vergne Machine Co., New York. 1906 Catalogue. Paper; 6 × 9¼ ins.; pp. 48; illustrated.

This catalogue describes various types of horizontal and vertical ammonia compression refrigerating machines and equipment for ice plants, breweries, packing houses, etc. The catalogue consists principally of half-tones illustrating the various plants in which these machines have been installed, and does not contain sizes or dimensions of the machines.

REINFORCED CONCRETE.—The Union Steel Screen Co., Ltd., Albion, Mich. Paper; 6¼ × 9 ins.; pp. 104; illustrated.

This catalogue is descriptive of interlocking reinforcements, which consist of wires or rods so arranged that they form a continuous run through the concrete. Numerous illustrations of bridges using this reinforcement, together with line cuts showing the manner of installing the same, are given. The catalogue includes tables of prices and general tables useful in figuring the proportions of concrete, etc.

CORRUGATED CONCRETE PILES.—Association of American Portland Cement Manufacturers, Philadelphia, Pa. Paper, 6 × 9 ins.; pp. 23; illustrated.

This is a paper read by Frank B. Gilbreth before the March quarterly meeting of the association. In it he tells how the danger of using wooden piles suggested the idea of a reinforced concrete pile that could be driven by the use of a jet and a heavy weight. The pamphlet consists mainly of illustrations showing how corrugated concrete piles are manufactured, set in position and driven. This paper is No. 7 of a list of bulletins issued by the association, all referring to cement and concrete construction.

READERS' WANTS FOR THOSE IN THE MARKET
The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (R-W) is for this class of inquiries, and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, **mention Engineering News.** Have you a copy of our Buyers' Guide? **Engineering News Can Help Buyers.**

CONCRETE OR IRON POSTS.—Dallas, Tex.—The Builders' Supply Co., Dallas, Tex., informs us that it desires prices and catalogues of concrete or iron posts for street signs.

CRUDE OIL BURNERS.—New York, N. Y.—The United States Drying Engineering Co., 66 Beaver St., New York, informs us that it is interested in crude oil burners and desires catalogues and information relative to same.

PORTABLE PLANING MILL.—Duluth, Minn.—Andrew Anderson, 22 Vernon St., Duluth, Minn., writes us that he desires prices and catalogues of planing machines, capable of working soft and hard wood.

RAILWAY MOTORS.—Westinghouse Electric & Manufacturing Co., Pittsburg, Pa. Circular No. 1129. Paper; 7 × 10 ins.; pp. 16; illustrated.

The No. 119 direct-current Westinghouse railway motor is here described and illustrated in detail. The motor is designed for high speed service with stops at frequent intervals.

ROCK DRILLS.—Ingersoll-Rand Co., 11 Broadway, New York City. Catalogue No. 383. Paper; 6 × 9 ins.; pp. 40; illustrated.

The Temple-Ingersoll electric-air rock drill, described in this pamphlet, is not an electric drill but an air drill driven by electric power. Details of its construction and operation, specifications, shipping measurements and some letters of recommendation comprise the chief contents of the pamphlet.

BRAKES FOR WESTINGHOUSE MOTORS.—Westinghouse Electric & Manufacturing Co., Pittsburg, Pa. Circular No 1134. Paper; 7 × 10 ins.; pp. 12; illustrated.

The brakes here described are electrical and mechanical brakes for Westinghouse type K motors; they are especially adapted for crane and hoisting machinery. The pamphlet also contains a list of the Westinghouse circulars in force May, 1906.

REINFORCED CONCRETE.—The International Siegwart Beam Co., Lucerne, Switzerland. Paper; 6 × 9 ins.; pp. 117; illustrated.

A brief preliminary discussion of fireproof construction in concrete and steel is followed by a description of and calculations for the Siegwart hollow beam, which is really a cement mortar beam, as a coarse aggregate is not used in its manufacture. The process of manufacturing the beam is described, and its points of merit enumerated; many pages of testimonials and tests complete the major portion of the book. A list of constructions in which the beam has been employed and plates illustrating some of them are added.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 8.

STREET PAVING.

Phoebus, Va.

Sealed proposals addressed to the "Town Recorder, Phoebus, Va.," will be received by the Street Committee until 8 o'clock, p. m., Thursday, July 19th, 1906, for furnishing material and labor for Paving Mellen Street from Mallory Street to Water Street, Mallory Street from C. & Q. Railway to Asylum Street, Asylum Street from Mallory Street to Soldiers' Home Bridge, Water Street from Mellen Street to Government Bridge. The surface to be covered is approximately 22,223 square yards, and the material to be used will be selected by the Town after the bids are opened.

Specifications and plans can be had by applying to this office.

A certified check for $1,000 must be deposited with each proposal.

The Town Council of Phoebus reserves the right to reject or accept any and all bids.

JNO. C. TEEMER,
1-2t Town Recorder.

Office of the Municipal Board,
Manila, P. I., June 30, 1906.

Sealed bids or proposals will be received until 12 m., September 12, 1906, for furnishing and delivering at ship's side in Manila, P. I., sewer gates and sluice gates for use in the proposed sewerage system of the city, in accordance with the plans and specifications on file in the office of said Board. The total number of gates proposed for use by the city amounts to 413, ranging in size from 8 inches to 20 inches in diameter.

Each proposal must be accompanied by a certified check for $1,000, drawn on a bank established in Manila, and made payable to the Municipal Board of the City of Manila. For the convenience of bidders in the United States, said check may be deposited with the Bureau of Insular Affairs at Washington, D. C., in which event it may be drawn on a Washington or New York bank.

Specifications, instructions to bidders, general plans, and blank forms of proposals may be obtained at the Office of the Board, Manila, P. I., or at the Bureau of Insular Affairs, Washington, D. C.

The right is reserved to reject any or all bids.

JNO. M. TUTHER,
Secretary of the Municipal Board.
J. F. CASE, Chief Engineer. 1-8t

OFFICE COMMISSIONERS, D. C., Washington, June 28, 1906.—Sealed proposals will be received at this office until 12 o'clock, noon, Saturday, July 14, 1906, for grading and regulating suburban streets and avenues. Blank forms of proposal, specifications, and all necessary information will be furnished at this office. H. B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 1-2t

BRICK PAVING.

Peekskill, N. Y.

Proposals will be received by the Board of Trustees of the Village of Peekskill, N. Y., for paving streets hereinafter named in said village, between the curb lines and at street crossings to street lines, with sound, hard-burned paving brick, made and burned specially for street paving purposes, and laid on a concrete foundation five inches in thickness, to the line and grade of said streets established by the Board of Trustees of said village, to wit:

On Main Street from marked points on the curbs opposite property of H. Griffin to a line drawn at right angles to said street from the southwest corner of Main and North Division Streets; and from a line drawn at right angles to said street from the northeast corner of Main and North Division streets to the east line of Broad Street. On North Division Street and Main Street from lines drawn at right angles to said streets from the southwest corner of Main and North Division Streets to lines drawn at right angles to said streets from the northeast corner of Main and North Division Streets (intersection). On North Division Street from a line drawn at right angles to said street from the northeast corner of Main and North Division Streets to the north line of Howard Street, including all street intersections, as shown on plans.

Bids must be made and work will be required to be performed strictly according to the plans and specifications, and pavement laid upon such grade as shown on maps made by I. W. Reynolds, C. E., on file in the office of the Clerk of the Village of Peekskill, Municipal Building. Bids must be made to include digging, making foundation, carting of surplus material, furnishing of all necessary material, labor, guards and lights.

Bids must be left with the undersigned at the Municipal Building, on or before 12 o'clock, noon, Wednesday, August 1st, 1906, and must be accompanied by certified check for $750, drawn upon a State or National Bank or Trust Company, payable to the Treasurer of the Village of Peekskill. Said check to be deposited as a security of good faith that the contractor will enter into a contract with the Village of Peekskill to perform said work in accordance with the plans and specifications should the contract be awarded to him, and to furnish bonds for the faithful periormance of the same. Checks of unsuccessful bidders will be returned to them on the signing of the contract. Bonds required $10,000.

The amount of work as estimated by the engineer is 9,300 square yards of paving. Blank proposals may be obtained at the office of the Village Clerk.

The Board reserves the right to reject any and all bids.

ALBERT E. CRUGER, Clerk.
Dated, Peekskill, N. Y., June 30, 1906. 1-1t

COAL-SHAFTS SINKING.

South Fork, Pa.

Bids are invited, by the Maryland Coal Co., of New York City, for the sinking of two coal-shafts in the vicinity of South Fork, near Johnstown, Pa. The main shaft to be 29 ft. 8 ins. × 12 ft. 8 ins., and the air shaft 11 ft. 6 ins. × 12 ft. 8 ins. in section, and each between 600 and 700 ft. in depth. For borings, plans, contract, and specifications apply to FRANK E. BRACKETT, Supt., Cumberland, Md. 1-4t

BLUE STONE FLAGGING.

Westfield, N. J.

Proposals will be received by the Council of the town of Westfield, N. J., at 8 p. m., July 16, for furnishing and laying about 16,000 sq. ft. of 2-in. blue stone flagging.

For particulars address A. W. VARS, Town Surveyor, Westfield, N. J. 1-1t

POWER PLANT.

Idaho Falls, Idaho.

Sealed proposals will be received at the office of the City Clerk of Idaho Falls, Idaho, until Monday, July 30, 1906, at 8 o'clock p. m., for the construction of a power plant on Snake River for the City of Idaho Falls, requiring the building of about 2,000 cubic yards of concrete masonry and the placing of 50 tons of steel reinforcement and structural steel, together with other accessory work.

Plans, specifications and proposal blanks may be obtained from the City Clerk of Idaho Falls, or may be inspected at the office of A. J. Wiley at Boise, Idaho.

E. P. COLTMAN,
Mayor.
D. G. PLATT,
City Clerk. 1-2t

WATER-WORKS, ELECTRIC LIGHT AND POWER PLANT.

Ottawa, Kansas.

Bids are requested by the City of Ottawa, Kansas, until 3 o'clock p. m. of July 20, 1906, for rebuilding, extending and improving the municipal Water-Works and Electric Light and Power Plant, or portions of said works, in accordance with the plans and specifications of the city. Said bids must be sealed, and addressed to the "City Clerk," Ottawa, Kansas. Bids must be accompanied by a certified check for 5 per cent. of the amount of bid, minimum check, $100. The plans and specifications are on file and may be seen at the office of the City Clerk, Ottawa, Kansas, or at the office of Owen Ford, Consulting and Supervising Engineer, 710 Security Building, St. Louis, Mo. The work is divided into sections as follows:

Sections

1—River Station and Improvements to open well.

2—Electric Centrifugal Pumps and Equipment.

3—Water Supply Intake from River and Pipe connections at River Station.

4—Power-house and Pumping Station.

5—Sedimentation Basin and Operating House.

6—Coagulating Apparatus and Equipment.

7—Storage Reservoir.

8—Boilers and Boiler Room Equipment.

9—Water-Works Pumping Engines.

10—Electric Light and Power Engines.

11—Station Pipe Work and connections.

12—Dynamos, Switchboards, Apparatus, Appliances and Station Electrical Work.

13—Water Pipe Connections on premises.

14—Sewer Connections and Sewer to River.

15—Cast Iron Pipes and Specials.

16—Hydrants, Valves and Valve Boxes.

17—Pipe Laying, Setting Hydrants, Valves, etc.

18—Exterior Electrical Work—connecting to Power Station, Water-Works Motors and present Lighting System.

19—Poles, Wire, Transformers and Electrical Materials.

The City reserves the right to reject any or all bids.

JOHN HALLOREN, Mayor.
J. H. BELL, City Clerk. 1-2t

OFFICE COMMISSIONERS, D. C., Washington, June 28, 1906.—Sealed proposals will be received at this office until 12 o'clock, noon, Saturday, July 14, 1906, for grading certain streets and avenues, aggregating about 30,000 yards of grading. Blank forms of proposal, specifications, and all necessary information will be furnished at this office. H. B. F. MACFARLAND, H. L. WEST, JOHN BIDDLE, Commissioners, D. C. 1-2t

Situations Wanted

Civil Engineers.

YOUNG CIVIL ENGINEER, at present engaged with firm of contracting engineers, wishes opportunity to make good in responsible position where executive and technical ability would be the qualifications for advancement. Address "P. A. 1," Engineering News, New York. 1-1t

Bridge and Structural Engineers.

STRUCTURAL ENGINEER and draftsman, college graduate, two years' experience in designing and estimating steel buildings and bridges, three years' experience in drawing room; at present in charge of sixteen men in the drawing room of a large firm, desires change. Address "L. A. 1," Engineering News, New York. 1-2t

GRADUATE STRUCTURAL ENGINEER, nine years' experience designing, detailing, checking steel for buildings and bridges, wants position, preferably in charge of work. Salary $28 per week. Address J. B., Box 97, 604 8th Ave., New York City. 1-2t

Draftsmen.

WANTED, 20 hours' work weekly, drafting, estimating, surveying. ENGINEER, 14 Sixth St., Weehawken, N. J. 1-1t

Surveyors.

YOUNG MAN of good education, 7 months' experience with city surveyor, holding position offering no chance for advancement, desires position as levelman or rodman. Has first-class references as to character and ability. Address "M. A. 1," Engineering News, New York. 1-1t

Superintendents, Misc., etc.

MACHINERY SALES MANAGER, age thirty, Yale graduate; six years' road experience in steam specialty line; three years as advertising manager. Well acquainted with machinery conditions and dealers throughout entire country. First-class references. Address "O. A. 1," Engineering News, New York. 1-1t

STEADY, sober, reliable ... wishes position as foreman of shop ... experienced on all kinds of gas work ... as tanks, holders, purifier covers, ... holders, condensers, hyd. main, ... work, tanks of all description, ... straight and crooked, stand pipes, ... stacks and flues. Address ... A. 1," Engineering News, New York. 1-3t

ENGINEER, technical education, ... seven years' experience detailing, ... and designing bridges, steel work, ... concrete, trestles, piers and ... and supervising building construction, desires executive or responsible position, State location, nature of work and opportunities. Address BOX 1... Pittsburg, Pa. 1-3t

SUPERINTENDENT of erection ... graduate engineer, several years practical experience erection bridges and other structures, desires position. Reference as to ability, character, etc. Address ... A. 1," Engineering News, New York. 1-3t

A MAN of technical education has conducted extensive operations of large concern for period of ten years, holding position of engineer and manager. Position is one requiring ability in engineering and business matters. Operations have been successful. Creditable reasons for desiring severance of present relations. A position of trust is sought. Address "H. A. 1," Engineering News, New York. 1-2t

MANAGER or SUPERINTENDENT canal, river or drainage contract, or submarine rock; can design plant. Address "G. A. 1," Engineering News, New York. 1-2t

CHIEF ENGINEER and superintendent, age 38, with 15 years' experience in Latin-American countries, now open for engagement; can take complete charge of railway proposition from surveys, through construction to operation; speaks Spanish; fully conversant with laws, customs and labor in southern countries; has good following of assistants; references. Address "A. 26," Engineering News, New York. 1-1t

SITUATIONS OPEN

WANTED.—A young man who combines a thorough acquaintance with architects and general contractors in the New York district with ability to sell high-grade pressure water filters; preference will be given to one having a knowledge of structural contracting. Address "I. 26," Engineering News, New York. 1-1t

ASSISTANT ENGINEER, for field work, also two or three draftsmen accustomed to plotting from field notes wanted. WESTINGHOUSE, CHURCH, KERR & CO., No. 10 Bridge St., New York. 1-1t

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Complete Ingersoll-Sergeant Compressor Plant

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Apply to P. F BRENDLINGER, 1009 Arcade Building, Philadelphia. 1-4t

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